

# North Dakota Department of Transportation

Thomas K. Sorel  
*Director*

Doug Burgum  
*Governor*

November 9, 2017

## ADDENDUM 1 – JOB 47

TO: All prospective bidders on project TAU-8-984(154)157, Job No. 47 scheduled for the November 17, 2017 bid opening.

The following plan and request for proposal revisions shall be made:

Plan Revisions:

**See attached summary from Eric Laidley PE, SRF Consulting Group, Inc. dated November 8, 2017 for an explanation.**

Request for Proposal Revisions:

**Remove and replace pages 6 and 7 of 9 of the Proposal pages located at the beginning of the Request for Proposal, with the enclosed pages revised 11/9/2017.**

The following changes were made to the Bid Items:

Spec No.	Code No.	Description	Description of Change
612	0115	REINFORCING STEEL-GRADE 60	Increased from 7,600 to 9,420 LBS
612	0116	REINFORCING STEEL-GRADE 60-EPOXY COATED	Decreased from 19,720 to 18,880 LBS
622	0020	STEEL PILING HP 10X42	Increased from 2,520 to 2,730 LF
930	9900	ANTI-GRAFFITI COATING	Removed Bid Item
970	0001	LANDSCAPING APPURTENANCES	Added Bid Item at 1 L SUM

**Remove and replace SP 5182(14) PERMITS AND ENVIRONMENTAL CONSIDERATIONS with the revised, dated 11/8/17.**

**Remove and replace SP 553(14) ARCHITECTURAL FINISH AND STAIN with the revised, dated 10/19/17.**

**Remove SP 554(14) ANTI-GRAFFITI COATING**

**Remove and replace SP 555(14) HOIST SYSTEM with the revised, dated 10/19/17.**

Addendum 1

Job 47, November 17, 2017 Bid Opening

Page 2 of 2

This addendum is to be incorporated into the bidder's proposal for this project. AASHTOWare Project Bids files should be updated by downloading the addendum file from the Bid Express on-line bidding exchange at <http://www.bidx.com/> and load it into the AASHTOWare Project Bids program.

A handwritten signature in black ink, appearing to read 'Phillip Murdoff', written in a cursive style.

PHILLIP MURDOFF – CONSTRUCTION SERVICES ENGINEER

80:jwj

Enclosure

November 9, 2017

**ADDENDUM 1 – JOB 47**

TO: All prospective bidders on project TAU-8-984(154)157, Job No. 47 scheduled for the November 17, 2017 bid opening.

Addendum 1 is to address: Revising special provisions. Adding landscape boulders to protect path wall. Updating bridge quantities, details, notes.

The following plan and proposal revisions shall be made:

**Proposal Revisions:**

**Remove and replace SP 5182(14) Permits and Environmental Considerations with the enclosed SP 5182(14) revised 11/8/17.**

**Remove and replace SP 553(14) Architectural Finish and Stain with the enclosed SP 553(14) revised 10/19/17.**

**Remove SP 554(14) Anti-Graffiti Coating**

**Remove and replace SP 555(14) Hoist System with the enclosed SP 555(14) revised 10/19/17.**

**Plan Revisions:**

**Remove and replace sheets 170-1 to 12 with the enclosed sheets revised 11/6/17.**

**Remove and replace sheet 20-3 with the enclosed sheet revised 11/7/17.**

**Remove and replace sheets 2-1, 4-1, 6-1 to 2, 8-1, and 60-1 to 3 with the enclosed sheets revised 11/8/17.**

**Add sheet 20-5 with the enclosed sheet added 11/8/17.**

Sheet 2-1:

Removed SP 554(14) Anti-Graffiti Coating. Combined with SP 553(14) Architectural Finish and Stain. Added sheet 20-5.

Sheet 4-1:

Revised to show Landscaping Appurtenances (Boulders).

Sheet 6-1:

Revised Note 750-P01 to differentiate contraction joint widths between 10' path and 18' 8th St pavement.

Sheet 6-2:

Added note for "Landscaping Appurtenances" to describe work and payment for landscape boulders.

Sheet 8-1:

Increased 612 0115 Reinforcing Steel-Grade 60 from 7600 LBS to 9420 LBS

Decreased 612 0116 Reinforcing Steel-Grade 60-Epoxy Coated from 19720 LBS to 18880 LBS

Increased 622 0020 Steel Piling HP 10 X 42 from 2520 LF to 2730 LF

Added bid item 970 0001 Landscaping Appurtenances 1 LS

Removed bid item 930 9930 Anti-Graffiti Coating

Addendum 1 Job 47  
November 17, 2017 Bid Opening

Sheet 20-3:

Guardrail height increased to 4'-6" and notes added.

Sheet 20-5:

Added detail for Landscaping Appurtenances (Boulders).

Sheet 60-1 to 3:

Revised to show Landscaping Appurtenances (Boulders) plan view locations.

Sheet 170-1:

Miscellaneous text revisions and elevations added.

Sheet 170-2 to 4:

Miscellaneous text revisions and reformatting.

Sheet 170-5:

One pile added each abutment, removed bid item 930 9930 Anti-Graffiti Coating, revised quantities for 612 0116 Reinforcing Steel-Grade 60-Epoxy Coated and 622 0020 Steel Piling HP 10x42.

Sheet 170-6:

Pile added and misc. text revisions.

Sheet 170-7:

Pile added, column anchor reinforcing added and misc. text revisions.

Sheet 170-8:

Column anchor reinforcement detail added and misc. text revisions.

Sheet 170-9:

Miscellaneous text revisions.

Sheet 170-10:

Channel and angle size revisions in Section A-A and misc. text revisions.

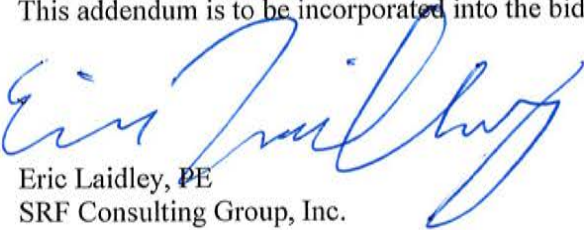
Sheet 170-11:

Coped connection plate corners and misc. text revisions.

Sheet 170-12:

Revised rebar lengths.

This addendum is to be incorporated into the bidder's proposal for this project.



Eric Laidley, PE  
SRF Consulting Group, Inc.

BID ITEMS

Project: TAU-8-984(154)157 (PCN-21690)

**Bidder must type or neatly print unit prices in numerals, make extensions for each item, and total. Do not carry unit prices further than three (3) decimal places.**

Item No.	Spec No.	Code No.	Description	Unit	Approx. Quantity	Unit Price		Amount	
						\$\$\$\$\$	000	\$\$\$\$\$	00
017	253	0201	HYDRAULIC MULCH	ACRE	.320				
018	256	0200	RIPRAP GRADE II	CY	191.				
019	261	0112	FIBER ROLLS 12IN	LF	684.				
020	261	0113	REMOVE FIBER ROLLS 12IN	LF	684.				
021	262	0100	FLOTATION SILT CURTAIN	LF	266.				
022	262	0101	REMOVE FLOTATION SILT CURTAIN	LF	266.				
023	302	0121	AGGREGATE BASE COURSE CL 5	CY	84.				
024	602	1130	CLASS AE-3 CONCRETE	CY	180.				
025	612	0115	REINFORCING STEEL-GRADE 60	LBS	9,420.				
026	612	0116	REINFORCING STEEL-GRADE 60-EPOXY COATED	LBS	18,880.				
027	616	0360	STRUCTURAL STEEL	LBS	55,320.				
028	622	0020	STEEL PILING HP 10 X 42	LF	2,730.				
029	622	6760	STEEL SHEET PILING	SF	1,690.				
030	624	0124	PEDESTRIAN FENCE	LF	72.				
031	702	0100	MOBILIZATION	L SUM	1.				
032	704	1000	TRAFFIC CONTROL SIGNS	UNIT	260.				

BID ITEMS

Project: TAU-8-984(154)157 (PCN-21690)

**Bidder must type or neatly print unit prices in numerals, make extensions for each item, and total. Do not carry unit prices further than three (3) decimal places.**

Item No.	Spec No.	Code No.	Description	Unit	Approx. Quantity	Unit Price		Amount	
						\$\$\$\$	000	\$\$\$\$	00
033	704	1052	TYPE III BARRICADE	EA	8.				
034	709	0600	GEOTEXTILE FABRIC-TYPE RR	SY	375.				
035	750	0030	PIGMENTED IMPRINTED CONCRETE	SY	18.				
036	750	0115	SIDEWALK CONCRETE 4IN	SY	698.				
037	752	0600	FENCE CHAIN LINK	LF	872.				
038	752	2100	VEHICLE GATE	EA	2.				
039	752	2120	REMOVE VEHICLE GATE	EA	2.				
040	930	3000	BRIDGE BENCH MARKS	SET	1.				
041	930	9677	RELOCATE TRUSS BRIDGE	L SUM	1.				
042	930	9750	PEDESTRIAN BRIDGE - PRE-FAB	EA	1.				
043	970	0001	LANDSCAPING APPURTENANCES	L SUM	1.				
044	970	1000	TREES	EA	20.				
045	990	0730	ELECTRICAL SERVICE	L SUM	1.				
			<b>TOTAL SUM BID</b>						

## NORTH DAKOTA DEPARTMENT OF TRANSPORTATION

### SPECIAL PROVISION

### ARCHITECTURAL FINISH AND STAIN

### PROJECT 8-984(154)157 – PCN 21690

#### DESCRIPTION

This work consists of applying concrete stain and anti-graffiti coating to all exposed concrete surfaces.

#### MATERIALS

##### A. General.

Obtain all concrete stain and anti-graffiti products from a single source.

##### B. Stain.

Provide a 100 percent acrylic; water-repellant, semi-opaque, tinted emulsion sealer designed for concrete and masonry surfaces.

Use products intended for outdoor use and that allow for moisture vapor transmission.

Provide products that are resistant to the following:

- Freeze thaw;
- Moisture;
- Alkali;
- Acid;
- Mold and fungus; and
- Discoloration and degradation.

Meets the requirements of ASTM G155 for a minimum of 1,000 hours.

Use color pigments, for tinted products, derived from synthetic mineral oxides.

##### C. Anti-graffiti Coating.

Provide an anti-graffiti coating that is:

- Clear;
- Non-yellowing; and
- UV-resistant.

#### CONSTRUCTION REQUIREMENTS

##### A. General

Use a single-colored stain with color to match the existing pedestrian bridge located in Lindenwood Park in Fargo, ND. Apply anti-graffiti coating after the stain.

Furnish, store, prepare, apply, and cure all materials according to the product manufacturer's directions.

**B. Submittals.**

Within 30 calendar days of execution of the Contract, submit the following to the Engineer for approval:

1. Product data including manufacturer's technical information and application instructions for each material proposed for use.
2. A list of cleaning products compatible with the anti-graffiti coating.
3. Laboratory test reports showing that materials proposed for use meet physical or performance property requirements.
4. Certificates of Compliance of the stain and anti-graffiti coatings.
5. Supply 1 foot X 1 foot color sample of the concrete stain to be used on the architectural surface.

**C. Test Panel.**

Once the 1 foot by 1 foot color sample has been approved by the Engineer, Produce a test panel that measures 48 × 24 × 3 inches. Construct the panel on the project site at a location acceptable to the Engineer and demonstrate the final colors and surface finish.

Construct a new panel if the initial panel does not match the color sample of the concrete stain. The Engineer will use the test panel to evaluate the final color. Do not remove the test panel from the jobsite until the Engineer releases it.

**D. Surface Preparation**

Following removal of forms, give all exposed textured concrete surfaces an ordinary surface finish as specified in Section 602.04 I.1 "Surface Finish A" before the surface preparation. Finish defects greater than 1/2" in diameter to blend with the balance of the textured surface. Exposed smooth surfaces shall receive "Surface Finish C."

Prepare surface according to stain manufacturers specifications.

Thoroughly flush all surfaces that are to receive an architectural surface finish with clean water not more than 24 hours before applying the finish.

**E. Application.**

Allow concrete to cure a minimum of 28 days before applying the surface finish.

Apply the base color according the manufacturer's recommendations for thickness and coverage.

Use undiluted staining products.

**BASIS OF PAYMENT**

Include the cost of work described in this Special Provision in the contract unit price for "Class AAE-3 Concrete".



## NORTH DAKOTA DEPARTMENT OF TRANSPORTATION

### SPECIAL PROVISION

### HOIST SYSTEM – 555(14)

### PROJECT 8-984(154)157 – PCN 21690

#### DESCRIPTION

This work consists of furnishing and installing hoist systems, power and control for pedestrian lift bridge.

#### EQUIPMENT

#### MATERIALS

##### A. General.

Obtain hoist system components from a single source.

##### B. Hoist Summary.

Two Electric Wire Rope base mounted hoisting systems having the following features and/or options:

1. 40-ton Capacity.
2. Base mounted hoist design.
3. Lift = 26'-2" available.
4. CMAA Class C Rated.
5. 460/480 Volt 3 Phase 60 Hertz power.
6. Controls to operate at 115 Volt secondary power.
7. VFD speed control.
8. Hoist shall include control system for diagnostics and interlocked hoist control.
9. Hoist operation from a remote radio based pendant system.
10. A mainline contactor is included for each hoist.
11. DC rectified electric disc brakes to be included for the hoist.
12. Incorporate an additional drum brake.
13. Provide a 96-decibel horn that sounds during motion.
14. The hoists to be dual reeved.
15. Include wire rope guides on the hoists.
16. Wire rope to be stainless steel.
17. The hoists include upper/lower geared adjustable limit switches.
18. The hoists include electronic overload limit switches.
19. Assemble and test full operation prior to shipment.
20. The hoists will be painted using epoxy finish paint.
21. The hoists include IP66 panel and motor protection.
  - a. Rain cover for hoist motor
  - b. Standby heater for hoist motor
22. Panel and motor heaters shall be included.
23. The hoists include a Hoist Monitor Elite electronic control to synchronize the operation of each hoist pair.

24. Synthetic lubricant is included for the hoist gearing.
25. Design hoists for outdoor – covered service operation.
26. Design hoists for low temperature (-4F) service.
27. Separate winch to raise/lower bridge support beam.
28. Provide safety lockout function for bridge support beam to ensure beam is in place prior to lowering bridge at raised rest position.

WORK INCLUDES THE FOLLOWING:

1. Detailed design of completed hoist system, including hoists, cabling, controls, and all appurtenances specified hereinafter.
2. Work drawings.
3. Fabrication of a complete hoist.
4. Inspection and shop testing.
5. Documentation and schedules.

1.01 REFERENCES

Equipment furnished under this section shall comply with the requirements of the latest revision of the following standards:

OSHA – Occupational Safety and Health Administration

Part 1926.554 - Overhead Hoists

Part 1910.179 – Overhead and Gantry Cranes

CMAA – Crane Manufacturer’s Association of America

Specifications for Top Running Bridge & Gantry Type Multiple

Girder Electric Overhead Traveling Cranes - No. 70

Specifications for Top Running and Under Running Single Girder  
Electric Overhead Cranes Utilizing Under Running Trolley Hoist -  
No. 74

ANSI – American National Standards Institute

ASME – American Society of Mechanical Engineers

ANSI / ASME HST-4 - Performance Standard For Overhead  
Electric Wire Rope Hoists

ANSI / ASME B30.16 – Overhead Hoists (Underhung)

ANSI / ASME B30.2 - Overhead and Gantry Cranes

(Top Running Bridge, Single Or Multiple Girder, Top Running Trolley Hoist)

ANSI / ASME B30.11 – Monorails and Underhung Cranes

ANSI / ASME B30.17 – Cranes and Monorails (With Underhung Trolley or Bridge) Safety Standard for Cableways, Cranes, Derricks, Hoists, Hooks, Jacks and Slings

NEC - National Electric Code

Article 100, Article 240-1, Article 430-31, Article 430-51, Article 610-1, Article 610-31

## **CONSTRUCTION REQUIREMENTS**

### **A. General**

#### 1.03 SUBMITTALS

##### A. SHOP DRAWINGS AND EQUIPMENT DATA

1. Manufacturer's catalog data for hoist.
2. Dimensional drawings and details for bridge hoist system.
3. Wiring schematics. – ship with hoist

##### B. OPERATIONS AND MAINTENANCE MANUALS (one set of Owner's manuals in paper and PDF version on Flash Drive)

1. Equipment function, normal operating characteristics, and limiting conditions.
2. Assembly, installation, alignment, and maintenance instructions.
3. Lubrication and maintenance instructions.
4. Guide to "troubleshooting".
5. Parts list.
6. As-built drawing.
7. Test results.

#### 1.05 WARRANTIES

- A. Provide one-year equipment warranty.

## **PART 2 - PRODUCTS**

#### 2.01 ACCEPTABLE PRODUCTS

- A. Provide an electric wire rope type with hoist monitor and a remote radio based pendant control system or approved equal.

## 2.02 MATERIALS

<u>Components</u>	<u>Material</u>
Bridge beams	Steel, ASTM A36 or A992
End trucks	Steel, ASTM A36
Trolley	Steel, ASTM A36
Wheels	Cast iron or steel
Hooks	Forged steel

## 2.03 EQUIPMENT

### A. HOIST

1. Equip hoist with an electro-mechanical load-limiting device that shall prevent lifting more than 110% of the rated load.
2. Hoist and trolley motors shall be per 1.01B above, as applicable.
3. Hoisting motor(s) shall be two-speed/two winding squirrel cage type with a speed ratio of 6:1.
4. Hoisting motor(s) shall be totally enclosed with IP55 protection, minimum class F insulation, Klaxon type bimetal switch for thermal protection and shall have a 60% ED rating.
5. Rotary cam type limit switch equipped with 4 micro-switches shall be provided. Limit switch shall provide upper and lower limit of hoist travel, hoist slow down prior to reaching upper limit and phase sequence supervision at upper limit. An additional block operated limit shall be included.
6. Hoist motor brake shall be DC disc type with adequate torque to stop and hold over 125% of the hoist rated load.
7. Large diameter rope drum with a minimum of 36:1 drum to wire rope diameter ratio. Groove depth shall be at least 35% of rope diameter. The rope drum shall be equipped with a rope guide to help keep the rope aligned in the grooves of the drum.
8. Wire rope shall be constructed from galvanized steel having a minimum safety factor of 5.
9. Hoist reeving shall be double reeved. Lateral hook drift shall not exceed 1/8 inch per foot of vertical travel.
10. The hoist nameplate is to carry a CSA c/us rating. The actual hoist control enclosure rating shall be at least equivalent to IP55 / NEMA 4 type.
11. Hooks shall be made of forged alloy steel (34CrMo4QT or 34CrNiMo6QT) and shall be fitted with a spring-loaded flipper-type safety latch.

12. Hoist shall have a duty rating suitable for the load class and load cycles of the application.
13. AGMA quality class 12 machine cut, hardened and precision ground hoist gearing. The gears inside the hoist gearboxes on models up to 5 ton capacity shall be lubricated by semi-fluid grease. On models over 5 ton capacity the gears inside the hoist gearbox shall be lubricated with semi-fluid grease or oil.
14. Two each hoist control monitors – one per hoist
15. 350' Profibus communication cable to connect both hoists. Synchronized operations requires the hoist to be connected via this cable – **CABLE CANNOT BE SPLICED.**

B. WINCH

1. Supply a winch system to deploy the bridge support beam.
2. Provide a safety lockout function to detect bridge support beam is in the fully deployed position prior to lowering bridge into raised rest position.

C. POWER SUPPLY

1. Power supply for the hoist shall be 460/480 volt, 3 ph., 60 Hz. All power required for the operation of the hoist, trolley, and end trucks shall be developed from this source.
2. Runway electrification shall be 4-bar safety type rigid conductors as manufactured by Insul-8, Duct-O-Wire Company or Wampfler. Wall mounted disconnect switch and power to runway conductors shall be provided.

D. CONTROLS

1. Hoist control system shall provide the following features and/or options.
  - a. Hoist control system via a PLC for system lift speed and synchronization between hoists to maintain a one inch level movement
  - b. Overload protection
  - c. Run and fault supervision
  - d. Starting and stopping at low speed
  - e. Sudden loading supervision
  - f. Single Radio control transmitter mounted and wired to PLC in Tower control panel.
2. Pendant
  - a. Eight-way operation, plug-in pushbutton pendant with radio control shall be provided.
  - b. Pendant shall include Start (momentary) button and Emergency Stop (push to maintain, turn to release) that controls a mainline contactor in the bridge control panel.

- c. Pushbutton shall be clearly marked with hoist travel directions.
- d. Up/Down push buttons to be momentary contact press to move type.
- e. Raise/Lower push buttons for bridge support beam winch control.
- f. Emergency stop push button to maintain, turn to release.
- g. Horn shall be press to sound type.
- h. Transmitter shall be outfitted with LCD display unit.
- i. Hoist shall be 2 speed magnetic reversing type.
- j. Electrical control enclosures shall be IP55 or NEMA 4 type.  
Pushbutton enclosure shall have a rating of IP65, NEMA 4X, 4 or 5.

A. LABELING

- 1. Hoist beam shall be labeled with load rating.
- 2. A corrosion-resistant nameplate shall be fixed to the bridge with the following information:
  - a. Name of manufacturer
  - b. Mfg.'s model number and serial number
  - c. Capacity
  - d. Date of manufacture (month and year)

B. PAINTING

- 1. Hoist and trolley shall be factory painted (2-part epoxy) per manufacturer's standards.
- 2. No paint on hoist wire rope.

PART 3 – EXECUTION

3.01 INSTALLATION AND INSPECTION

- A. Inspect structure and hoist for conformance with reviewed shop drawings and contract documents prior to installation of equipment. Bring nonconforming work to the attention of the Owner prior to proceeding with hoist installation. Nonconforming bridge structure or installation must be corrected prior to load testing of hoist system. Costs of delays or additional work due to nonconforming bridge structure will be reimbursed by the Owner.
- B. Bridge hoist shall be installed in conformance with manufacturer's instructions and inspected by a manufacturer's representative. Provide all necessary accessories to make bridge hoist complete, usable, and capable of meeting the operating requirements specified in the Operating Requirements. Test, adjust and clean equipment for acceptance by Owner.
- C. The Contractor assumes all responsibility for operation and maintenance until the hoist has been accepted by Owner.

3.02 TESTING

- A. All hoist equipment shall be operated through a complete lift and lowering cycle and through a complete travel of the bridge to determine that the equipment shall perform smoothly and safely and that pendant cable length is sufficient to permit operation from desired floor levels. All tests shall be carried out with the bridge hoist equipment loaded at 125 percent of capacity. The bridge hoist provider shall provide the test weight loads. Any defects shall be corrected by the bridge hoist provider without any expense to the Owner.

### 3.03 CLEANUP

- A. Upon completion of work, area shall be cleaned and restored to original condition, acceptable to the Owner.

### **METHOD OF MEASUREMENT / BASIS OF PAYMENT**

Include the cost of work described in this Special Provision to be included in the contract unit price for "Electrical Service".

**NORTH DAKOTA DEPARTMENT OF TRANSPORTATION**

**SPECIAL PROVISION**

**PERMITS AND ENVIRONMENTAL CONSIDERATIONS**

**PROJECT NUMBER: TAU-8-984(154)157 – PCN 21690**

This Special Provision incorporates the Section 404, Sovereign Lands, Floodway Review, City of Fargo Floodway Development, City of Moorhead Floodway Development, City of Moorhead Conditional Use, Minnesota DNR Public Waters, and Buffalo/Red River Watershed District Permits into the project. The Sovereign Lands Permit is currently pending.

The Contractor shall be responsible for complying with all the terms and conditions as contained in the permit(s) attached hereto. Bidders shall become familiar with all standard conditions and special conditions of the permit(s) and submit their bid for the construction of this project based on the following:

- **Section 404 Permit**  
The Section 404 Permit number NWO-2009-300-BIS authorizes fill within USACE jurisdictional waters. This 404 permit authorizes 0.00 acre of temporary and 0.03 acre of permanent jurisdictional wetland impacts. Temporary impacts were assumed by the designer and will be restored to preconstruction contours. See the Section 75 sheets of the design plans for the permitted impact areas. The Section 404 Permit is attached.
- **Sovereign Lands Permit**  
This Sovereign Lands Permit Application has been submitted but has not yet been obtained. The permit is expected before bid and will be added to the project once received.
- **Floodway Review Permit**
- **City of Fargo Floodplain Development Permit**
- **City of Moorhead Floodplain Development Permit**
- **City of Moorhead Conditional Use Permit**



- **Minnesota DNR Public Waters Permit**
- **Buffalo/Red River Watershed District Permit**

The contractor shall be responsible for obtaining permits for impacts not authorized by the attached Permit obtained by the NDDOT.

**Renschler, Jason J CIV USARMY CENWO (US)**

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**Subject:** FW: [EXTERNAL] RE: Oak Grove Pedestrian Bridge - Red River. #2009-300.  
(UNCLASSIFIED)  
**Attachments:** NDDoH C&EDR.pdf

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**From:** Wax, Peter N. [mailto:pwax@nd.gov]  
**Sent:** Friday, October 20, 2017 8:29 AM  
**To:** Renschler, Jason J CIV USARMY CENWO (US) <Jason.J.Renschler@usace.army.mil>  
**Subject:** [EXTERNAL] RE: Oak Grove Pedestrian Bridge - Red River. #2009-300. (UNCLASSIFIED)

**Section §401 Clean Water Certification approved for Application No: 2009-300** [Oak Grove Pedestrian & Bicycle Bridge - Red River]

Dear Mr. Renschler:

The department approves 401 Certification for the approve application provided:

- 1) Clean rip-rap free of wood or rubbish that is sized and shaped appropriately for the energy of the river, and
- 2) The Environmental Disturbance Requirements (attached) are followed.

Should you have any questions, I may be reached at 701.328.5268.

Sincerely,





**Construction and Environmental Disturbance Requirements**

These represent the minimum requirements of the North Dakota Department of Health. They ensure that minimal environmental degradation occurs as a result of construction or related work which has the potential to affect the waters of the State of North Dakota. All projects will be designed and implemented to restrict the losses or disturbances of soil, vegetative cover, and pollutants (chemical or biological) from a site.

**Soils**

Prevent the erosion of exposed soil surfaces and trapping sediments being transported. Examples include, but are not restricted to, sediment dams or berms, diversion dikes, hay bales as erosion checks, riprap, mesh or burlap blankets to hold soil during construction, and immediately establishing vegetative cover on disturbed areas after construction is completed. Fragile and sensitive areas such as wetlands, riparian zones, delicate flora, or land resources will be protected against compaction, vegetation loss, and unnecessary damage.

**Surface Waters**

All construction which directly or indirectly impacts aquatic systems will be managed to minimize impacts. All attempts will be made to prevent the contamination of water at construction sites from fuel spillage, lubricants, and chemicals, by following safe storage and handling procedures. Stream bank and stream bed disturbances will be controlled to minimize and/or prevent silt movement, nutrient upsurges, plant dislocation, and any physical, chemical, or biological disruption. The use of pesticides or herbicides in or near these systems is forbidden without approval from this Department.

**Fill Material**

Any fill material placed below the high water mark must be free of top soils, decomposable materials, and persistent synthetic organic compounds (in toxic concentrations). This includes, but is not limited to, asphalt, tires, treated lumber, and construction debris. The Department may require testing of fill materials. All temporary fills must be removed. Debris and solid wastes will be removed from the site and the impacted areas restored as nearly as possible to the original condition.



## COMPLIANCE CERTIFICATION

**Permit File Name:** SRF Consulting / City of Fargo. Oak Grove / Memorial Park  
Pedestrian Lift Bridge. Red River of the North.

**Action ID:** NWO-2009-300-BIS.

**Nationwide Permit Number:** #23

**Permittee:** City of Fargo – Engineering Dept.  
Attn: Jeremy Gorden  
200 North Third Street  
Fargo, North Dakota 58102

**County:** Cass

**Date of Verification:** October 20, 2017

Within 30 days after completion of the activity authorized by this permit, sign this certification and return it to the following address:

U.S. Army Corps of Engineers, Omaha District  
North Dakota Regulatory Office  
1513 South 12<sup>th</sup> Street  
Bismarck, North Dakota 58504  
[CENWO-OD-RND@usace.army.mil](mailto:CENWO-OD-RND@usace.army.mil)

Please note that your permitted activity is subject to a compliance inspection by a U.S. Army Corps of Engineers representative. If you fail to comply with the terms and conditions of the permit your authorization may be suspended, modified, or revoked. If you have any questions about this certification, please contact the U.S. Army Corps of Engineers.

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***I hereby certify that the work authorized by the above-referenced permit, including all the required mitigation, was completed in accordance with the terms and conditions of the permit verification.***

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**DEPARTMENT OF THE ARMY**  
CORPS OF ENGINEERS, OMAHA DISTRICT  
NORTH DAKOTA REGULATORY OFFICE  
3319 UNIVERSITY DRIVE  
BISMARCK ND 58504

October 20, 2017

NWO-2009-300-BIS

SRF Consulting Group, Inc.  
Attn: Jonathan Morgenroth  
One North Second Street  
Fargo, North Dakota 58102

Dear Mr. Morgenroth:

We have reviewed your request for Department of the Army (DA) authorization, on behalf of the City of Fargo, for the removal of the existing and construction of a new Oak Grove / Memorial Garden Pedestrian and Bicycle Lift Bridge over the Red River of the North. The project includes placement of approximately 96 cubic yards of fill material and 191 cubic yards of rock riprap associated with the new bridge abutments. The project is located in the SW¼ of Section 5, Township 139 North, Range 48 West, Cass County, North Dakota.

Based on the information provided to this office, it has been determined that this project and associated work is authorized by Department of the Army Nationwide Permit No. 23 found in the January 6, 2017 Federal Register (82 FR 1860), Reissuance of Nationwide Permits. Enclosed is a fact sheet that fully describes the Nationwide Permit and lists the General, Regional and a copy of the individual Water Quality Certification that must be adhered to for this authorization to remain valid.

This determination is applicable only to the permit program administered by the US Army Corps of Engineers. It does not eliminate the need to obtain other applicable Federal, State, Tribal and local permits as required. Please note that deviations from the original plans and specifications of the project could require additional authorization from this office. Within 30 days after completion of the authorized work, you must sign the enclosed Compliance Certification and return it to this office.

The City of Fargo is responsible for all work accomplished in accordance with the terms and conditions of this nationwide permit. If a contractor or other authorized representative will be accomplishing the work authorized by this nationwide permit, it is recommended that they be provided a copy of this letter and the attached conditions so that they are aware of the limitations of the nationwide permit. Failure to comply with all the terms and conditions of this authorization may result in an enforcement action.

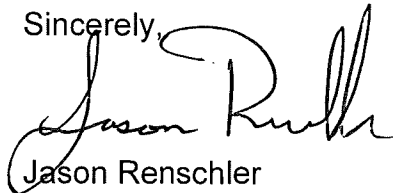


This verification will be valid until **March 18, 2022**. If the nationwide permit is modified, suspended, or revoked prior to this date, but is reissued without modification or the activity complies with any subsequent modification, this authorization remains valid until the expiration date. All of the existing nationwide permits are scheduled to be modified, reissued, or revoked prior to March 18, 2022. It is incumbent upon you to remain informed of changes to the nationwide permits. We will issue a public notice when the nationwide permits are reissued. Furthermore, if you commence or are under contract to commence this activity before the date that the relevant nationwide permit is modified or revoked, you will have twelve (12) months from the date of the modification or revocation to complete the activity under the present terms and conditions.

The Omaha District, North Dakota Regulatory Office is committed to providing quality and timely service to our customers. In an effort to improve customer service, please take a moment to complete out Customer Service Survey found on our website at [http://corpsmapu.usace.army.mil/cm\\_apex/f?p=regulatory\\_survey](http://corpsmapu.usace.army.mil/cm_apex/f?p=regulatory_survey). If you do not have Internet access, you may call and request a paper copy of the survey that you can complete and return to us by mail or fax.

If you have any questions concerning this determination, please contact Mr. Jason Renschler of this office by letter or telephone at (701) 255-0015 ext. 2010 and reference project identification number **NWO-2009-300-BIS**.

Sincerely,



Jason Renschler  
Regulatory Project Manager  
North Dakota

Enclosures

- compliance certification
- Fact Sheet #23
- copy of 401 WQC

**FACT SHEET  
NATIONWIDE PERMIT 23  
(2017)**

**APPROVED CATEGORICAL EXCLUSIONS**

Activities undertaken, assisted, authorized, regulated, funded, or financed, in whole or in part, by another Federal agency or department where:

(a) That agency or department has determined, pursuant to the Council on Environmental Quality's implementing regulations for the National Environmental Policy Act (40 CFR part 1500 et seq.), that the activity is categorically excluded from the requirement to prepare an environmental impact statement or environmental assessment analysis, because it is included within a category of actions which neither individually nor cumulatively have a significant effect on the human environment; and

(b) The Office of the Chief of Engineers (Attn: CECW-CO) has concurred with that agency's or department's determination that the activity is categorically excluded and approved the activity for authorization under NWP 23.

The Office of the Chief of Engineers may require additional conditions, including pre-construction notification, for authorization of an agency's categorical exclusions under this NWP.

Notification: Certain categorical exclusions approved for authorization under this NWP require the permittee to submit a pre-construction notification to the district engineer prior to commencing the activity (see general condition 32). The activities that require pre-construction notification are listed in the appropriate Regulatory Guidance Letters. (Sections 10 and 404)

Note: The agency or department may submit an application for an activity believed to be categorically excluded to the Office of the Chief of Engineers (Attn: CECW-CO). Prior to approval for authorization under this NWP of any agency's activity, the Office of the Chief of Engineers will solicit public comment. As of the date of issuance of this NWP, agencies with approved categorical exclusions are: the Bureau of Reclamation, Federal Highway Administration, and U.S. Coast Guard. Activities approved for authorization under this NWP as of the date of this notice are found in Corps Regulatory Guidance Letter 05-07, which is available at: <http://www.usace.army.mil/Portals/2/docs/civilworks/RGLS/rgl05-07.pdf>. Any future approved categorical exclusions will be announced in Regulatory Guidance Letters and posted on this same Web site.

**Nationwide Permit General Conditions**

**Note:** To qualify for NWP authorization, the prospective permittee must comply with the following general conditions, as applicable, in addition to any regional or case-specific conditions imposed by the division engineer or district engineer. Prospective permittees should contact the appropriate Corps district office to determine if regional conditions have been imposed on an NWP. Prospective permittees should also contact the appropriate Corps district office to determine the status of Clean Water Act Section 401 water quality certification and/ or Coastal Zone Management Act consistency for an NWP. Every person who may wish to obtain

permit authorization under one or more NWP, or who is currently relying on an existing or prior permit authorization under one or more NWP, has been and is on notice that all of the provisions of 33 CFR 330.1 through 330.6 apply to every NWP authorization. Note especially 33 CFR 330.5 relating to the modification, suspension, or revocation of any NWP authorization.

### **1. Navigation.**

- (a) No activity may cause more than a minimal adverse effect on navigation.
- (b) Any safety lights and signals prescribed by the U.S. Coast Guard, through regulations or otherwise, must be installed and maintained at the permittee's expense on authorized facilities in navigable waters of the United States.
- (c) The permittee understands and agrees that, if future operations by the United States require the removal, relocation, or other alteration, of the structure or work herein authorized, or if, in the opinion of the Secretary of the Army or his authorized representative, said structure or work shall cause unreasonable obstruction to the free navigation of the navigable waters, the permittee will be required, upon due notice from the Corps of Engineers, to remove, relocate, or alter the structural work or obstructions caused thereby, without expense to the United States. No claim shall be made against the United States on account of any such removal or alteration.

### **2. Aquatic Life Movements.**

No activity may substantially disrupt the necessary life cycle movements of those species of aquatic life indigenous to the waterbody, including those species that normally migrate through the area, unless the activity's primary purpose is to impound water. All permanent and temporary crossings of waterbodies shall be suitably culverted, bridged, or otherwise designed and constructed to maintain low flows to sustain the movement of those aquatic species. If a bottomless culvert cannot be used, then the crossing should be designed and constructed to minimize adverse effects to aquatic life movements.

### **3. Spawning Areas.**

Activities in spawning areas during spawning seasons must be avoided to the maximum extent practicable. Activities that result in the physical destruction (e.g., through excavation, fill, or downstream smothering by substantial turbidity) of an important spawning area are not authorized.

### **4. Migratory Bird Breeding Areas.**

Activities in waters of the United States that serve as breeding areas for migratory birds must be avoided to the maximum extent practicable.

### **5. Shellfish Beds.**

No activity may occur in areas of concentrated shellfish populations, unless the activity is directly related to a shellfish harvesting activity authorized by NWP 4 and 48, or is a shellfish seeding or habitat restoration activity authorized by NWP 27.

#### **6. Suitable Material.**

No activity may use unsuitable material (e.g., trash, debris, car bodies, asphalt, etc.). Material used for construction or discharged must be free from toxic pollutants in toxic amounts (see section 307 of the Clean Water Act).

#### **7. Water Supply Intakes.**

No activity may occur in the proximity of a public water supply intake, except where the activity is for the repair or improvement of public water supply intake structures or adjacent bank stabilization.

#### **8. Adverse Effects from Impoundments.**

If the activity creates an impoundment of water, adverse effects to the aquatic system due to accelerating the passage of water, and/or restricting its flow must be minimized to the maximum extent practicable.

#### **9. Management of Water Flows.**

To the maximum extent practicable, the pre-construction course, condition, capacity, and location of open waters must be maintained for each activity, including stream channelization, storm water management activities, and temporary and permanent road crossings, except as provided below. The activity must be constructed to withstand expected high flows. The activity must not restrict or impede the passage of normal or high flows, unless the primary purpose of the activity is to impound water or manage high flows. The activity may alter the pre-construction course, condition, capacity, and location of open waters if it benefits the aquatic environment (e.g., stream restoration or relocation activities).

#### **10. Fills Within 100-Year Floodplains.**

The activity must comply with applicable FEMA-approved state or local floodplain management requirements.

#### **11. Equipment.**

Heavy equipment working in wetlands or mudflats must be placed on mats, or other measures must be taken to minimize soil disturbance.

#### **12. Soil Erosion and Sediment Controls.**

Appropriate soil erosion and sediment controls must be used and maintained in effective operating condition during construction, and all exposed soil and other fills, as well as any work below the ordinary high water mark or high tide line, must be permanently stabilized at the earliest practicable date. Permittees are encouraged to perform work within waters of the United States during periods of low-flow or no-flow, or during low tides.

### **13. Removal of Temporary Fills.**

Temporary fills must be removed in their entirety and the affected areas returned to pre-construction elevations. The affected areas must be revegetated, as appropriate.

### **14. Proper Maintenance.**

Any authorized structure or fill shall be properly maintained, including maintenance to ensure public safety and compliance with applicable NWP general conditions, as well as any activity-specific conditions added by the district engineer to an NWP authorization.

### **15. Single and Complete Project.**

The activity must be a single and complete project. The same NWP cannot be used more than once for the same single and complete project.

### **16. Wild and Scenic Rivers.**

(a) No NWP activity may occur in a component of the National Wild and Scenic River System, or in a river officially designated by Congress as a “study river” for possible inclusion in the system while the river is in an official study status, unless the appropriate Federal agency with direct management responsibility for such river, has determined in writing that the proposed activity will not adversely affect the Wild and Scenic River designation or study status.

(b) If a proposed NWP activity will occur in a component of the National Wild and Scenic River System, or in a river officially designated by Congress as a “study river” for possible inclusion in the system while the river is in an official study status, the permittee must submit a pre-construction notification (see general condition 32). The district engineer will coordinate the PCN with the Federal agency with direct management responsibility for that river. The permittee shall not begin the NWP activity until notified by the district engineer that the Federal agency with direct management responsibility for that river has determined in writing that the proposed NWP activity will not adversely affect the Wild and Scenic River designation or study status.

(c) Information on Wild and Scenic Rivers may be obtained from the appropriate Federal land management agency responsible for the designated Wild and Scenic River or study river (e.g., National Park Service, U.S. Forest Service, Bureau of Land Management, U.S. Fish and Wildlife Service). Information on these rivers is also available at: <http://www.rivers.gov/>.

### **17. Tribal Rights.**

No NWP activity may cause more than minimal adverse effects on tribal rights (including treaty rights), protected tribal resources, or tribal lands.

### **18. Endangered Species.**

- (a) No activity is authorized under any NWP which is likely to directly or indirectly jeopardize the continued existence of a threatened or endangered species or a species proposed for such designation, as identified under the Federal Endangered Species Act (ESA), or which will directly or indirectly destroy or adversely modify the critical habitat of such species. No activity is authorized under any NWP which "may affect" a listed species or critical habitat, unless ESA section 7 consultation addressing the effects of the proposed activity has been completed. Direct effects are the immediate effects on listed species and critical habitat caused by the NWP activity. Indirect effects are those effects on listed species and critical habitat that are caused by the NWP activity and are later in time, but still are reasonably certain to occur.
- (b) Federal agencies should follow their own procedures for complying with the requirements of the ESA. If pre-construction notification is required for the proposed activity, the Federal permittee must provide the district engineer with the appropriate documentation to demonstrate compliance with those requirements. The district engineer will verify that the appropriate documentation has been submitted. If the appropriate documentation has not been submitted, additional ESA section 7 consultation may be necessary for the activity and the respective federal agency would be responsible for fulfilling its obligation under section 7 of the ESA.
- (c) Non-federal permittees must submit a pre-construction notification to the district engineer if any listed species or designated critical habitat might be affected or is in the vicinity of the activity, or if the activity is located in designated critical habitat, and shall not begin work on the activity until notified by the district engineer that the requirements of the ESA have been satisfied and that the activity is authorized. For activities that might affect Federally-listed endangered or threatened species or designated critical habitat, the pre-construction notification must include the name(s) of the endangered or threatened species that might be affected by the proposed activity or that utilize the designated critical habitat that might be affected by the proposed activity. The district engineer will determine whether the proposed activity "may affect" or will have "no effect" to listed species and designated critical habitat and will notify the non-Federal applicant of the Corps' determination within 45 days of receipt of a complete pre-construction notification. In cases where the non-Federal applicant has identified listed species or critical habitat that might be affected or is in the vicinity of the activity, and has so notified the Corps, the applicant shall not begin work until the Corps has provided notification that the proposed activity will have "no effect" on listed species or critical habitat, or until ESA section 7 consultation has been completed. If the non-Federal applicant has not heard back from the Corps within 45 days, the applicant must still wait for notification from the Corps.
- (d) As a result of formal or informal consultation with the FWS or NMFS the district engineer may add species-specific permit conditions to the NWPs.
- (e) Authorization of an activity by an NWP does not authorize the "take" of a threatened or endangered species as defined under the ESA. In the absence of separate authorization (e.g., an ESA Section 10 Permit, a Biological Opinion with "incidental take" provisions, etc.) from the FWS or the NMFS, the Endangered Species Act prohibits any person subject to the jurisdiction of the United States to take a listed species, where "take" means to harass, harm, pursue, hunt,

shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct. The word “harm” in the definition of “take” means an act which actually kills or injures wildlife. Such an act may include significant habitat modification or degradation where it actually kills or injures wildlife by significantly impairing essential behavioral patterns, including breeding, feeding or sheltering.

(f) If the non-federal permittee has a valid ESA section 10(a)(1)(B) incidental take permit with an approved Habitat Conservation Plan for a project or a group of projects that includes the proposed NWP activity, the non-federal applicant should provide a copy of that ESA section 10(a)(1)(B) permit with the PCN required by paragraph (c) of this general condition. The district engineer will coordinate with the agency that issued the ESA section 10(a)(1)(B) permit to determine whether the proposed NWP activity and the associated incidental take were considered in the internal ESA section 7 consultation conducted for the ESA section 10(a)(1)(B) permit. If that coordination results in concurrence from the agency that the proposed NWP activity and the associated incidental take were considered in the internal ESA section 7 consultation for the ESA section 10(a)(1)(B) permit, the district engineer does not need to conduct a separate ESA section 7 consultation for the proposed NWP activity. The district engineer will notify the non-federal applicant within 45 days of receipt of a complete pre-construction notification whether the ESA section 10(a)(1)(B) permit covers the proposed NWP activity or whether additional ESA section 7 consultation is required.

(g) Information on the location of threatened and endangered species and their critical habitat can be obtained directly from the offices of the FWS and NMFS or their world wide Web pages at <http://www.fws.gov/> or <http://www.fws.gov/ipac> and <http://www.nmfs.noaa.gov/pr/species/esa/> respectively.

### **19. Migratory Birds and Bald and Golden Eagles.**

The permittee is responsible for ensuring their action complies with the Migratory Bird Treaty Act and the Bald and Golden Eagle Protection Act. The permittee is responsible for contacting appropriate local office of the U.S. Fish and Wildlife Service to determine applicable measures to reduce impacts to migratory birds or eagles, including whether “incidental take” permits are necessary and available under the Migratory Bird Treaty Act or Bald and Golden Eagle Protection Act for a particular activity.

### **20. Historic Properties.**

(a) In cases where the district engineer determines that the activity may have the potential to cause effects to properties listed, or eligible for listing, in the National Register of Historic Places, the activity is not authorized, until the requirements of Section 106 of the National Historic Preservation Act (NHPA) have been satisfied.

(b) Federal permittees should follow their own procedures for complying with the requirements of section 106 of the National Historic Preservation Act. If pre-construction notification is required for the proposed NWP activity, the Federal permittee must provide the district engineer with the appropriate documentation to demonstrate compliance with those requirements. The district engineer will verify that the appropriate documentation has been submitted. If the appropriate documentation is not submitted, then additional consultation under section 106 may

be necessary. The respective federal agency is responsible for fulfilling its obligation to comply with section 106.

(c) Non-federal permittees must submit a pre-construction notification to the district engineer if the NWP activity might have the potential to cause effects to any historic properties listed on, determined to be eligible for listing on, or potentially eligible for listing on the National Register of Historic Places, including previously unidentified properties. For such activities, the pre-construction notification must state which historic properties might have the potential to be affected by the proposed NWP activity or include a vicinity map indicating the location of the historic properties or the potential for the presence of historic properties. Assistance regarding information on the location of, or potential for, the presence of historic properties can be sought from the State Historic Preservation Officer, Tribal Historic Preservation Officer, or designated tribal representative, as appropriate, and the National Register of Historic Places (see 33 CFR 330.4(g)). When reviewing pre-construction notifications, district engineers will comply with the current procedures for addressing the requirements of section 106 of the National Historic Preservation Act. The district engineer shall make a reasonable and good faith effort to carry out appropriate identification efforts, which may include background research, consultation, oral history interviews, sample field investigation, and field survey. Based on the information submitted in the PCN and these identification efforts, the district engineer shall determine whether the proposed NWP activity has the potential to cause effects on the historic properties. Section 106 consultation is not required when the district engineer determines that the activity does not have the potential to cause effects on historic properties (see 36 CFR 800.3(a)). Section 106 consultation is required when the district engineer determines that the activity has the potential to cause effects on historic properties. The district engineer will conduct consultation with consulting parties identified under 36 CFR 800.2(c) when he or she makes any of the following effect determinations for the purposes of section 106 of the NHPA: no historic properties affected, no adverse effect, or adverse effect. Where the non-Federal applicant has identified historic properties on which the activity might have the potential to cause effects and so notified the Corps, the non-Federal applicant shall not begin the activity until notified by the district engineer either that the activity has no potential to cause effects to historic properties or that NHPA section 106 consultation has been completed.

(d) For non-federal permittees, the district engineer will notify the prospective permittee within 45 days of receipt of a complete pre-construction notification whether NHPA section 106 consultation is required. If NHPA section 106 consultation is required, the district engineer will notify the non-Federal applicant that he or she cannot begin the activity until section 106 consultation is completed. If the non-Federal applicant has not heard back from the Corps within 45 days, the applicant must still wait for notification from the Corps.

(e) Prospective permittees should be aware that section 110k of the NHPA (54 U.S.C. 306113) prevents the Corps from granting a permit or other assistance to an applicant who, with intent to avoid the requirements of section 106 of the NHPA, has intentionally significantly adversely affected a historic property to which the permit would relate, or having legal power to prevent it, allowed such significant adverse effect to occur, unless the Corps, after consultation with the Advisory Council on Historic Preservation (ACHP), determines that circumstances justify granting such assistance despite the adverse effect created or permitted by the applicant. If circumstances justify granting the assistance, the Corps is required to notify the ACHP and provide documentation specifying the circumstances, the degree of damage to the integrity of any historic properties affected, and proposed mitigation. This documentation must include any



views obtained from the applicant, SHPO/ THPO, appropriate Indian tribes if the undertaking occurs on or affects historic properties on tribal lands or affects properties of interest to those tribes, and other parties known to have a legitimate interest in the impacts to the permitted activity on historic properties.

### **21. Discovery of Previously Unknown Remains and Artifacts.**

If you discover any previously unknown historic, cultural or archeological remains and artifacts while accomplishing the activity authorized by this permit, you must immediately notify the district engineer of what you have found, and to the maximum extent practicable, avoid construction activities that may affect the remains and artifacts until the required coordination has been completed. The district engineer will initiate the Federal, Tribal, and state coordination required to determine if the items or remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.

### **22. Designated Critical Resource Waters.**

Critical resource waters include, NOAA-managed marine sanctuaries and marine monuments, and National Estuarine Research Reserves. The district engineer may designate, after notice and opportunity for public comment, additional waters officially designated by a state as having particular environmental or ecological significance, such as outstanding national resource waters or state natural heritage sites. The district engineer may also designate additional critical resource waters after notice and opportunity for public comment.

(a) Discharges of dredged or fill material into waters of the United States are not authorized by NWP 7, 12, 14, 16, 17, 21, 29, 31, 35, 39, 40, 42, 43, 44, 49, 50, 51, and 52 for any activity within, or directly affecting, critical resource waters, including wetlands adjacent to such waters.

(b) For NWP 3, 8, 10, 13, 15, 18, 19, 22, 23, 25, 27, 28, 30, 33, 34, 36, 37, 38, and 54, notification is required in accordance with general condition 32, for any activity proposed in the designated critical resource waters including wetlands adjacent to those waters. The district engineer may authorize activities under these NWPs only after it is determined that the impacts to the critical resource waters will be no more than minimal.

### **23. Mitigation.**

The district engineer will consider the following factors when determining appropriate and practicable mitigation necessary to ensure that the individual and cumulative adverse environmental effects are no more than minimal:

(a) The activity must be designed and constructed to avoid and minimize adverse effects, both temporary and permanent, to waters of the United States to the maximum extent practicable at the project site (i.e., on site).

(b) Mitigation in all its forms (avoiding, minimizing, rectifying, reducing, or compensating for resource losses) will be required to the extent necessary to ensure that the individual and cumulative adverse environmental effects are no more than minimal.

(c) Compensatory mitigation at a minimum one-for-one ratio will be required for all wetland losses that exceed 1/10-acre and require pre-construction notification, unless the district engineer determines in writing that either some other form of mitigation would be more environmentally

appropriate or the adverse environmental effects of the proposed activity are no more than minimal, and provides an activity-specific waiver of this requirement. For wetland losses of 1/10-acre or less that require pre-construction notification, the district engineer may determine on a case-by-case basis that compensatory mitigation is required to ensure that the activity results in only minimal adverse environmental effects.

(d) For losses of streams or other open waters that require pre-construction notification, the district engineer may require compensatory mitigation to ensure that the activity results in no more than minimal adverse environmental effects. Compensatory mitigation for losses of streams should be provided, if practicable, through stream rehabilitation, enhancement, or preservation, since streams are difficult-to-replace resources (see 33 CFR 332.3(e)(3)).

(e) Compensatory mitigation plans for NWP activities in or near streams or other open waters will normally include a requirement for the restoration or enhancement, maintenance, and legal protection (e.g., conservation easements) of riparian areas next to open waters. In some cases, the restoration or maintenance/protection of riparian areas may be the only compensatory mitigation required. Restored riparian areas should consist of native species. The width of the required riparian area will address documented water quality or aquatic habitat loss concerns.

Normally, the riparian area will be 25 to 50 feet wide on each side of the stream, but the district engineer may require slightly wider riparian areas to address documented water quality or habitat loss concerns. If it is not possible to restore or maintain/protect a riparian area on both sides of a stream, or if the waterbody is a lake or coastal waters, then restoring or maintaining/protecting a riparian area along a single bank or shoreline may be sufficient. Where both wetlands and open waters exist on the project site, the district engineer will determine the appropriate compensatory mitigation (e.g., riparian areas and/or wetlands compensation) based on what is best for the aquatic environment on a watershed basis. In cases where riparian areas are determined to be the most appropriate form of minimization or compensatory mitigation, the district engineer may waive or reduce the requirement to provide wetland compensatory mitigation for wetland losses.

(f) Compensatory mitigation projects provided to offset losses of aquatic resources must comply with the applicable provisions of 33 CFR part 332.

(1) The prospective permittee is responsible for proposing an appropriate compensatory mitigation option if compensatory mitigation is necessary to ensure that the activity results in no more than minimal adverse environmental effects. For the NWPs, the preferred mechanism for providing compensatory mitigation is mitigation bank credits or in-lieu fee program credits (see 33 CFR 332.3(b)(2) and (3)). However, if an appropriate number and type of mitigation bank or in-lieu credits are not available at the time the PCN is submitted to the district engineer, the district engineer may approve the use of permittee-responsible mitigation.

(2) The amount of compensatory mitigation required by the district engineer must be sufficient to ensure that the authorized activity results in no more than minimal individual and cumulative adverse environmental effects (see 33 CFR 330.1(e)(3)). (See also 33 CFR 332.3(f)).

(3) Since the likelihood of success is greater and the impacts to potentially valuable uplands are reduced, aquatic resource restoration should be the first compensatory mitigation option considered for permittee-responsible mitigation.

(4) If permittee-responsible mitigation is the proposed option, the prospective permittee is responsible for submitting a mitigation plan. A conceptual or detailed mitigation plan may be used by the district engineer to make the decision on the NWP verification request, but a final mitigation plan that addresses the applicable requirements of 33 CFR 332.4(c)(2) through (14) must be approved by the district engineer before the permittee begins work in waters of the

United States, unless the district engineer determines that prior approval of the final mitigation plan is not practicable or not necessary to ensure timely completion of the required compensatory mitigation (see 33 CFR 332.3(k)(3)).

(5) If mitigation bank or in-lieu fee program credits are the proposed option, the mitigation plan only needs to address the baseline conditions at the impact site and the number of credits to be provided.

(6) Compensatory mitigation requirements (e.g., resource type and amount to be provided as compensatory mitigation, site protection, ecological performance standards, monitoring requirements) may be addressed through conditions added to the NWP authorization, instead of components of a compensatory mitigation plan (see 33 CFR 332.4(c)(1)(ii)).

(g) Compensatory mitigation will not be used to increase the acreage losses allowed by the acreage limits of the NWPs. For example, if an NWP has an acreage limit of 1/2-acre, it cannot be used to authorize any NWP activity resulting in the loss of greater than 1/2-acre of waters of the United States, even if compensatory mitigation is provided that replaces or restores some of the lost waters. However, compensatory mitigation can and should be used, as necessary, to ensure that an NWP activity already meeting the established acreage limits also satisfies the no more than minimal impact requirement for the NWPs.

(h) Permittees may propose the use of mitigation banks, in-lieu fee programs, or permittee-responsible mitigation. When developing a compensatory mitigation proposal, the permittee must consider appropriate and practicable options consistent with the framework at 33 CFR 332.3(b). For activities resulting in the loss of marine or estuarine resources, permittee-responsible mitigation may be environmentally preferable if there are no mitigation banks or in-lieu fee programs in the area that have marine or estuarine credits available for sale or transfer to the permittee. For permittee-responsible mitigation, the special conditions of the NWP verification must clearly indicate the party or parties responsible for the implementation and performance of the compensatory mitigation project, and, if required, its long-term management.

(i) Where certain functions and services of waters of the United States are permanently adversely affected by a regulated activity, such as discharges of dredged or fill material into waters of the United States that will convert a forested or scrub-shrub wetland to a herbaceous wetland in a permanently maintained utility line right-of-way, mitigation may be required to reduce the adverse environmental effects of the activity to the no more than minimal level.

#### **24. Safety of Impoundment Structures.**

To ensure that all impoundment structures are safely designed, the district engineer may require non-Federal applicants to demonstrate that the structures comply with established state dam safety criteria or have been designed by qualified persons. The district engineer may also require documentation that the design has been independently reviewed by similarly qualified persons, and appropriate modifications made to ensure safety.

#### **25. Water Quality.**

Where States and authorized Tribes, or EPA where applicable, have not previously certified compliance of an NWP with CWA section 401, individual 401 Water Quality Certification must be obtained or waived (see 33 CFR 330.4(c)). The district engineer or State or Tribe may require additional water quality management measures to ensure that the authorized activity does not

result in more than minimal degradation of water quality. *Specifically for North Dakota, the North Dakota Department of Health has denied water quality certification for all projects proposed to affect Class 1 and IA rivers and streams, and classified lakes in Appendix I and II of the standards, and individual certification must be obtained. For projects proposed to affect any other waters, the North Dakota Department of Health has issued water quality certification provided the attached Construction and Environmental Disturbance Requirements are followed. The Standards may be found at <http://www.legis.nd.gov/information/acdata/pdf/33-16-02.1.pdf?2016031115632>*

*On Tribal Lands, Water Quality Certification is denied for all Nationwide Permits. Applicants must work with EPA to obtain individual water quality certification. Contact: USEPA, Region 8, 401 Certification Program – 8WP-AAP, 1595 Wynkoop Street, Denver, Colorado 80202-1129. (303-312-6909)*

## **26. Coastal Zone Management.**

In coastal states where an NWP has not previously received a state coastal zone management consistency concurrence, an individual state coastal zone management consistency concurrence must be obtained, or a presumption of concurrence must occur (see 33 CFR 330.4(d)). The district engineer or a State may require additional measures to ensure that the authorized activity is consistent with state coastal zone management requirements.

## **27. Regional and Case-By-Case Conditions.**

The activity must comply with any regional conditions that may have been added by the Division Engineer (see 33 CFR 330.4(e)) and with any case specific conditions added by the Corps or by the state, Indian Tribe, or U.S. EPA in its section 401 Water Quality Certification, or by the state in its Coastal Zone Management Act consistency determination.

## **28. Use of Multiple Nationwide Permits.**

The use of more than one NWP for a single and complete project is prohibited, except when the acreage loss of waters of the United States authorized by the NWPs does not exceed the acreage limit of the NWP with the highest specified acreage limit. For example, if a road crossing over tidal waters is constructed under NWP 14, with associated bank stabilization authorized by NWP 13, the maximum acreage loss of waters of the United States for the total project cannot exceed 1/3-acre.

## **29. Transfer of Nationwide Permit Verifications.**

If the permittee sells the property associated with a nationwide permit verification, the permittee may transfer the nationwide permit verification to the new owner by submitting a letter to the appropriate Corps district office to validate the transfer. A copy of the nationwide permit verification must be attached to the letter, and the letter must contain the following statement and signature:

When the structures or work authorized by this nationwide permit are still in existence at the time the property is transferred, the terms and conditions of this nationwide permit, including any special conditions, will continue to be binding on the new owner(s) of the property. To validate the transfer of this nationwide permit and the associated liabilities associated with compliance with its terms and conditions, have the transferee sign and date below.

\_\_\_\_\_ (Transferee) \_\_\_\_\_ (Date)

### **30. Compliance Certification.**

Each permittee who receives an NWP verification letter from the Corps must provide a signed certification documenting completion of the authorized activity and implementation of any required compensatory mitigation. The success of any required permittee-responsible mitigation, including the achievement of ecological performance standards, will be addressed separately by the district engineer. The Corps will provide the permittee the certification document with the NWP verification letter. The certification document will include:

- (a) A statement that the authorized activity was done in accordance with the NWP authorization, including any general, regional, or activity-specific conditions;
- (b) A statement that the implementation of any required compensatory mitigation was completed in accordance with the permit conditions. If credits from a mitigation bank or in-lieu fee program are used to satisfy the compensatory mitigation requirements, the certification must include the documentation required by 33 CFR 332.3(l)(3) to confirm that the permittee secured the appropriate number and resource type of credits; and
- (c) The signature of the permittee certifying the completion of the activity and mitigation. The completed certification document must be submitted to the district engineer within 30 days of completion of the authorized activity or the implementation of any required compensatory mitigation, whichever occurs later.

### **31. Activities Affecting Structures or Works Built by the United States.**

If an NWP activity also requires permission from the Corps pursuant to 33 U.S.C. 408 because it will alter or temporarily or permanently occupy or use a U.S. Army Corps of Engineers (USACE) federally authorized Civil Works project (a "USACE project"), the prospective permittee must submit a pre-construction notification. See paragraph (b)(10) of general condition 32. An activity that requires section 408 permission is not authorized by NWP until the appropriate Corps office issues the section 408 permission to alter, occupy, or use the USACE project, and the district engineer issues a written NWP verification.

### **32. Pre-Construction Notification.**

- (a) Timing. Where required by the terms of the NWP, the prospective permittee must notify the district engineer by submitting a pre-construction notification (PCN) as early as possible. The district engineer must determine if the PCN is complete within 30 calendar days of the date of

receipt and, if the PCN is determined to be incomplete, notify the prospective permittee within that 30 day period to request the additional information necessary to make the PCN complete. The request must specify the information needed to make the PCN complete. As a general rule, district engineers will request additional information necessary to make the PCN complete only once. However, if the prospective permittee does not provide all of the requested information, then the district engineer will notify the prospective permittee that the PCN is still incomplete and the PCN review process will not commence until all of the requested information has been received by the district engineer. The prospective permittee shall not begin the activity until either:

(1) He or she is notified in writing by the district engineer that the activity may proceed under the NWP with any special conditions imposed by the district or division engineer; or

(2) 45 calendar days have passed from the district engineer's receipt of the complete PCN and the prospective permittee has not received written notice from the district or division engineer. However, if the permittee was required to notify the Corps pursuant to general condition 18 that listed species or critical habitat might be affected or are in the vicinity of the activity, or to notify the Corps pursuant to general condition 20 that the activity might have the potential to cause effects to historic properties, the permittee cannot begin the activity until receiving written notification from the Corps that there is "no effect" on listed species or "no potential to cause effects" on historic properties, or that any consultation required under Section 7 of the Endangered Species Act (see 33 CFR 330.4(f)) and/or section 106 of the National Historic Preservation Act (see 33 CFR 330.4(g)) has been completed. Also, work cannot begin under NWPs 21, 49, or 50 until the permittee has received written approval from the Corps. If the proposed activity requires a written waiver to exceed specified limits of an NWP, the permittee may not begin the activity until the district engineer issues the waiver. If the district or division engineer notifies the permittee in writing that an individual permit is required within 45 calendar days of receipt of a complete PCN, the permittee cannot begin the activity until an individual permit has been obtained. Subsequently, the permittee's right to proceed under the NWP may be modified, suspended, or revoked only in accordance with the procedure set forth in 33 CFR 330.5(d)(2).

(b) Contents of Pre-Construction Notification: The PCN must be in writing and include the following information:

(1) Name, address and telephone numbers of the prospective permittee;

(2) Location of the proposed activity;

(3) Identify the specific NWP or NWP(s) the prospective permittee wants to use to authorize the proposed activity;

(4) A description of the proposed activity; the activity's purpose; direct and indirect adverse environmental effects the activity would cause, including the anticipated amount of loss of wetlands, other special aquatic sites, and other waters expected to result from the NWP activity, in acres, linear feet, or other appropriate unit of measure; a description of any proposed mitigation measures intended to reduce the adverse environmental effects caused by the proposed activity; and any other NWP(s), regional general permit(s), or individual permit(s) used or intended to be used to authorize any part of the proposed project or any related activity, including other separate and distant crossings for linear projects that require Department of the Army authorization but do not require pre-construction notification. The description of the proposed activity and any proposed mitigation measures should be sufficiently detailed to allow the district engineer to determine that the adverse environmental effects of the activity will be no

more than minimal and to determine the need for compensatory mitigation or other mitigation measures. For single and complete linear projects, the PCN must include the quantity of anticipated losses of wetlands, other special aquatic sites, and other waters for each single and complete crossing of those wetlands, other special aquatic sites, and other waters. Sketches should be provided when necessary to show that the activity complies with the terms of the NWP. (Sketches usually clarify the activity and when provided results in a quicker decision. Sketches should contain sufficient detail to provide an illustrative description of the proposed activity (e.g., a conceptual plan), but do not need to be detailed engineering plans);

(5) The PCN must include a delineation of wetlands, other special aquatic sites, and other waters, such as lakes and ponds, and perennial, intermittent, and ephemeral streams, on the project site. Wetland delineations must be prepared in accordance with the current method required by the Corps. The permittee may ask the Corps to delineate the special aquatic sites and other waters on the project site, but there may be a delay if the Corps does the delineation, especially if the project site is large or contains many wetlands, other special aquatic sites, and other waters. Furthermore, the 45 day period will not start until the delineation has been submitted to or completed by the Corps, as appropriate;

(6) If the proposed activity will result in the loss of greater than 1/10-acre of wetlands and a PCN is required, the prospective permittee must submit a statement describing how the mitigation requirement will be satisfied, or explaining why the adverse environmental effects are no more than minimal and why compensatory mitigation should not be required. As an alternative, the prospective permittee may submit a conceptual or detailed mitigation plan.

(7) For non-Federal permittees, if any listed species or designated critical habitat might be affected or is in the vicinity of the activity, or if the activity is located in designated critical habitat, the PCN must include the name(s) of those endangered or threatened species that might be affected by the proposed activity or utilize the designated critical habitat that might be affected by the proposed activity. For NWP activities that require pre-construction notification, Federal permittees must provide documentation demonstrating compliance with the Endangered Species Act.

(8) For non-Federal permittees, if the NWP activity might have the potential to cause effects to a historic property listed on, determined to be eligible for listing on, or potentially eligible for listing on, the National Register of Historic Places, the PCN must state which historic property might have the potential to be affected by the proposed activity or include a vicinity map indicating the location of the historic property. For NWP activities that require pre-construction notification, Federal permittees must provide documentation demonstrating compliance with section 106 of the National Historic Preservation Act;

(9) For an activity that will occur in a component of the National Wild and Scenic River System, or in a river officially designated by Congress as a "study river" for possible inclusion in the system while the river is in an official study status, the PCN must identify the Wild and Scenic River or the "study river" (see general condition 16); and

(10) For an activity that requires permission from the Corps pursuant to 33 U.S.C. 408 because it will alter or temporarily or permanently occupy or use a U.S. Army Corps of Engineers federally authorized civil works project, the pre-construction notification must include a statement confirming that the project proponent has submitted a written request for section 408 permission from the Corps office having jurisdiction over that USACE project.

(c) Form of Pre-Construction Notification: The standard individual permit application form (Form ENG 4345) may be used, but the completed application form must clearly indicate that it

is an NWP PCN and must include all of the applicable information required in paragraphs (b)(1) through (10) of this general condition. A letter containing the required information may also be used. Applicants may provide electronic files of PCNs and supporting materials if the district engineer has established tools and procedures for electronic submittals.

(d) Agency Coordination:

(1) The district engineer will consider any comments from Federal and state agencies concerning the proposed activity's compliance with the terms and conditions of the NWPs and the need for mitigation to reduce the activity's adverse environmental effects so that they are no more than minimal.

(2) Agency coordination is required for: (i) All NWP activities that require pre-construction notification and result in the loss of greater than 1/2-acre of waters of the United States; (ii) NWP 21, 29, 39, 40, 42, 43, 44, 50, 51, and 52 activities that require pre-construction notification and will result in the loss of greater than 300 linear feet of stream bed; (iii) NWP 13 activities in excess of 500 linear feet, fills greater than one cubic yard per running foot, or involve discharges of dredged or fill material into special aquatic sites; and (iv) NWP 54 activities in excess of 500 linear feet, or that extend into the waterbody more than 30 feet from the mean low water line in tidal waters or the ordinary high water mark in the Great Lakes.

(3) When agency coordination is required, the district engineer will immediately provide (e.g., via email, facsimile transmission, overnight mail, or other expeditious manner) a copy of the complete PCN to the appropriate Federal or state offices (FWS, state natural resource or water quality agency, EPA, and, if appropriate, the NMFS). With the exception of NWP 37, these agencies will have 10 calendar days from the date the material is transmitted to notify the district engineer via telephone, facsimile transmission, or email that they intend to provide substantive, site-specific comments. The comments must explain why the agency believes the adverse environmental effects will be more than minimal. If so contacted by an agency, the district engineer will wait an additional 15 calendar days before making a decision on the pre-construction notification. The district fully consider agency comments received within the specified time frame concerning the proposed activity's compliance with the terms and conditions of the NWPs, including the need for mitigation to ensure the net adverse environmental effects of the proposed activity are no more than minimal. The district engineer will provide no response to the resource agency, except as provided below. The district engineer will indicate in the administrative record associated with each pre-construction notification that the resource agencies' concerns were considered. For NWP 37, the emergency watershed protection and rehabilitation activity may proceed immediately in cases where there is an unacceptable hazard to life or a significant loss of property or economic hardship will occur. The district engineer will consider any comments received to decide whether the NWP 37 authorization should be modified, suspended, or revoked in accordance with the procedures at 33 CFR 330.5.

(4) In cases of where the prospective permittee is not a Federal agency, the district engineer will provide a response to NMFS within 30 calendar days of receipt of any Essential Fish Habitat conservation recommendations, as required by section 305(b)(4)(B) of the Magnuson-Stevens Fishery Conservation and Management Act.

5) Applicants are encouraged to provide the Corps with either electronic files or multiple copies of pre- construction notifications to expedite agency coordination.

### **Further Information**



1. District Engineers have authority to determine if an activity complies with the terms and conditions of an NWP.
2. NWPs do not obviate the need to obtain other federal, state, or local permits, approvals, or authorizations required by law.
3. NWPs do not grant any property rights or exclusive privileges.
4. NWPs do not authorize any injury to the property or rights of others.
5. NWPs do not authorize interference with any existing or proposed Federal project (see general condition 31).

**2017 NATIONWIDE PERMITS  
REGIONAL CONDITIONS  
OMAHA DISTRICT  
STATE OF NORTH DAKOTA**

The following Nationwide Permit Regional Conditions will be used in the State of North Dakota. Regional conditions are placed on Nationwide Permits to ensure projects result in no more than minimal adverse impacts to the aquatic environment and to address local resource concerns.

1. **Wetlands Classified as Peatlands – Revoked for use**

All Nationwide Permits, with the exception of 3, 5, 20, 32, 38 and 45, are revoked for use in peatlands. Peatlands are permanently or seasonally saturated and inundated wetlands where conditions inhibit organic matter decomposition and allow for the accumulation of peat. Under cool, anaerobic, and acidic conditions, the rate of organic matter accumulation exceeds organic decay.

2. **Wetlands Classified as Peatlands – Preconstruction Notification Requirement**

For Nationwide Permits 3, 5, 20, 32, 38 and 45 permittees must notify the Corps in accordance with General Condition 32 (Pre-Construction Notification) prior to initiating any regulated activity impacting peatlands.

3. **Waters Adjacent to Natural Springs – Preconstruction Notification Requirement**

For all Nationwide Permits permittees must notify the Corps in accordance with General Condition No. 32 (Pre-Construction Notification) for regulated activities located within 100 feet of the water source in natural spring areas. For purposes of this condition, a spring source is defined as any location where there is flow emanating from a distinct point at any time during the growing season. Springs do not include seeps and other groundwater discharge areas where there is no distinct point source.

4. **Missouri River, including Lake Sakakawea and Lake Oahe – Pre-construction Notification Requirement**

For all Nationwide Permits permittees must notify the Corps in accordance with General Condition No. 32 (Pre-Construction Notification) prior to initiating any regulated activity occurring in or under the Missouri River, including Lake Sakakawea and Lake Oahe. In addition, any activity occurring in an off channel area (marinas, bays, etc.) of any of these waterbodies, a preconstruction notification is required.

5. **Spawning Areas**

Spawning restrictions and important fish habitat areas, if applicable, can be accessed on the North Dakota Game & Fish Department's website at:

<http://gf.nd.gov/gnf/conservation/docs/spawning-restriction-exclusions.pdf>

No regulated activity within the Red River of the North shall occur between 15 April and 1 July. Spawning season restrictions do not apply to projects involving dredging or other discharges of less than 25 cubic yards of material in any jurisdictional water.

#### 6. Counter-Sinking Culverts and Associated Riprap – All Nationwide Permits

In streams with intermittent or perennial flow and a stable stream bed, culvert stream crossings shall be installed with the culvert invert set below the natural streambed according to the table below. This regional condition does not apply in instances where the lowering of the culvert invert would allow a headcut to migrate upstream of the project into an unaffected stream reach or result in lowering the elevation of the stream reach.

Riprap inlet and outlet protection shall be placed to match the height of the culvert invert.

Culvert Type	Drainage Area	Minimum Distance Culvert Invert Shall Be Lowered Below Stream Flow Line
All culvert types	≤ 100 acres	Not required
Pipe diameter <8.0 ft	100 to 640 acres	0.5 ft
Pipe diameter <8.0 ft	>640 acres	1.0 ft
Pipe diameter ≥ 8.0 ft	All drainage sizes	1.0 ft
Box culvert	All drainage sizes	1.0 ft

#### REGIONAL CONDITIONS APPLICABLE TO SPECIFIC NATIONWIDE PERMITS

##### Nationwide Permit 7 – Outfall Structures and Associated Intake Structures and Nationwide Permit 12 – Utility Line Activities.

**Intake Structures** – Intake screens with a maximum mesh opening of ¼-inch must be provided, inspected annually, and maintained. Wire, Johnson-like, screens must have a maximum distance between wires of 1/8-inch. Water velocity at the intake screen shall not exceed ½-foot per second.

Pumping plant sound levels will not exceed 75 dB at 50 feet.

Intakes located in Lake Sakakawea, above river mile 1519, and on the Yellowstone River, are subject to the following conditions:

- The intakes shall be floating.
- At the beginning of the pumping season, the intake shall be placed over water with a minimum depth of 20 feet.
- If the 20-foot depth is not attainable, then the intake shall be located over the deepest water available.

- If the water depth falls below six feet, the intake shall be moved to deeper water or the maximum intake velocity shall be limited to ¼ foot per second.

Intakes located in Lake Sakakawea, below river mile 1519, and the Missouri River below Garrison Dam are subject to the following conditions:

- The intakes shall be submerged.
- At the beginning of the pumping season, the intake will be placed at least 20 vertical feet below the existing water level.
- The intake shall be elevated 2 to 4 feet off the bottom of the river or reservoir bed.
- If the 20-foot depth is not attainable, then the intake velocity shall be limited to ¼-foot per second with intake placed at the maximum practicable attainable depth.

Intakes and associated utility lines that are proposed to cross sandbars in areas designated as piping plover critical habitat are prohibited.

### **Utility Lines**

- Any temporary open trench associated with utility lines are to be closed within 30 days of excavation. This time limit may be extended by notifying the North Dakota Regulatory Office and receiving a written response that the extension is acceptable.

### **Nationwide Permit 11 – Temporary Recreational Structures – Boat Docks**

To ensure that the work or structure shall not cause unreasonable obstruction to the free navigation of the navigable waters, the following conditions are required:

- No boat dock shall be located on a sandbar or barren sand feature. The farthest point riverward of a dock shall not exceed a total length of 30 feet from the ordinary high watermark. Information Note: Issuance of this permit does not supersede authorization required by the North Dakota State Engineer's Office.
- Any boat dock shall be anchored to the top of the high bank.
- Any boat dock located within an excavated bay or marina that is off the main river channel may be anchored to the bay or marina bottom with spuds.

Section 10 Waters located in the State of North Dakota are:

Bois de Sioux River  
 James River  
 Missouri River  
 Red River of the North  
 Upper Des Lacs Lake  
 Yellowstone River

### **Nationwide Permit 13 – Bank Stabilization**

Permittees must notify the Corps in accordance with General Condition No. 32 (Pre-Construction Notification) prior to initiating any regulated activity. The notification must also include photo evidence of erosion in the area. Prohibited materials found at

<http://www.nwo.usace.army.mil/Media/FactSheets/FactSheetArticleView/tabid/2034/Article/487696/prohibited-restricted-materials.aspx> cannot be used in waters of the United States.

### **Nationwide Permit 23 – Approved Categorical Exclusions**

Permittees must notify the Corps in accordance with General Condition No. 32 (Pre-Construction Notification) prior to initiating any regulated activity. In addition to information required by General Condition 32 (Pre-Construction Notification), permittees must identify the approved categorical exclusion that applies and provide documentation that the project fits the categorical exclusion.

## **GENERAL CONDITIONS (REGIONAL ADDITIONS)**

### **General Condition 32 Notification– Pre-construction Notification**

Prospective permittees should be aware that a field aquatic resources delineation may be required for applications where notification is required in accordance with General Condition 32 (Pre-Construction Notification) and/or mitigation may be required. Specific guidelines outlining the aquatic resources delineation process in the State of North Dakota and the Corps 1987 Wetland Delineation Manual and applicable Regional supplements to the Manual can be accessed on the North Dakota Regulatory Office's website at:

<http://www.nwo.usace.army.mil/Missions/RegulatoryProgram/NorthDakota.aspx>



# State of North Dakota

## Office of the State Engineer

### Regulatory Division

900 EAST BOULEVARD AVE. • BISMARCK, ND 58505-0850  
Regulatory Division (701) 328-2752 • FAX (701) 328-3696 • <http://swc.nd.gov>

September 7, 2017

City of Fargo  
Attn: Jody Bertrand  
200 3<sup>rd</sup> Street North  
Fargo, ND 58102

Re: Oak Grove Park Pedestrian Lift Bridge - Floodway Review

Dear Mr. Bertrand,

On behalf of the State Engineer, and as directed in North Dakota Century Code § 61-16.2-14, the Office of the State Engineer (OSE) staff has reviewed the proposed project located within the mapped floodway of the Red River as requested by the City of Fargo. The proposed project consists of replacing the existing pedestrian bridge, which links Oak Grove Park in Fargo, ND and Memorial Park in Moorhead, MN.

The initial application submitted on August 11, 2017, included a “no-rise” certificate and a hydraulic model comparing the existing and proposed conditions. The project includes the removal of the existing bridge, construction of a new bridge, raising abutments and trail approaches, enhancing design and safety features, and installing a mechanical lift system.

Upon review of the submitted material, the OSE staff found the project to cause no increase in the water surface elevation of the 1-percent chance flood event. In addition, conveyance at the project location was reviewed. The OSE staff has determined this project appears to be in compliance with state and federal regulations as it pertains to floodplain management.

The City of Fargo is the regulatory authority and a permit is required for all development that takes place within identified floodplains. If the City wishes to allow this project, please keep a copy of the permit and associated documentation for proper record keeping. Any changes to the design must be submitted to the OSE for review and approval.

Sincerely,

Dionne Haynes, CFM  
State NFIP Coordinator

AC: DH/1721-05

cc: Barb Denver, FEMA Region 8 (email)



# Floodplain Development Permit Application

PERMIT # 17-11

*Please complete all items on this page.*

Applicant City of Fargo Date: 8/9/2017

Address 200 3rd Street North, Fargo, ND 58102

Proposed development address or 170 Maple Street North

Legal Description: Replatted part of Govt Lot 2, Section 17 and Govt Lots 4 & 5, and SW 1/4 of SE 1/4  
Section 18, Twp-139-N, Range-48-W. (6/24/2009, Bx-1, P-45) \*7/6/2009-074 SPL/FR 01-3500-05020-000.

Project Contact Person: Jeremy Gorden Telephone 701-241-1545

Email kgorden@FargoND.gov

*Note: all buildings/structures 120 Square Feet or more must be permitted by the Building Inspections Department.*

## SECTION 1: DEVELOPMENT ACTIVITY

What permit are you applying for?  Floodplain  41 WSEIA  MDZS/LDZS

Check all that apply:

- Fill  Mining  Drilling  Grading
- Excavation (except for structural development)
- Watercourse Alterations (including channel modifications)
- Drainage Improvements (including culvert work)
- Road, Street or Bridge Construction
- Subdivision (new or expansion)

Other (specify on space below)

This project is a replacement of the existing pedestrian bridge connecting Oak Grove Park (Fargo) to Memorial/W. H. Davy Park in Moorhead, MN spanning the Red Rive of the North.

Attach plans, description, etc., as appropriate to this application.



**SECTION 2: FLOODPLAIN DETERMINATION**

Community Number 385364  Floodplain (SFHA)  41 WSEIA  
 Floodway (No-rise Certificate Required)  Project is not located in a SFHA

FIRM Panel 38017C0

Site Elevations  
(Use only NAVD 1988)

Existing Grade

FIRM ZONE

BFE (SFHA)

Index and Map Date 1/16/2015

41' WSEIA

**SECTION 3: MDZS / LDZS CONDITIONS**

- Bike Path / Walking Trail / Multi-use Path
- Building / Structure under 120 Square Feet
- Flood Protection Levee / Floodwall
- Public Facility / Rest Room, Shelter, Etc.
- Road / Bridge / Trail / Storm Drainage
- Stairway / Lift / Landing / Ramp / Mobility Path

Completed Setback Waiver Eligibility Form / backup

Engineer comment letter

Other

**Other City of Fargo Permits that are Required as a condition of this permit:**

*Notice:  
Federal and ND State Permits may also  
be required before construction begins.  
Other permits are the responsibility of  
the applicant.*

Erosion and Sediment Control (ESC)

Other

**SECTION 4: ACTION / APPROVAL / CONDITIONAL APPROVAL / DENIAL**

**Fargo City Commission Action**

Approved << Commission Decision >>  
 Denied << Commission Decision >>

Date

**Permit is Approved**

**Permit is Denied**

  
SIGNATURE, Stormwater Engineer

Date



# Floodplain Development Permit

500 Center Avenue, Moorhead, MN 56560  
Engineering: 218.299.5390  
engineering@ci.moorhead.mn.us

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## GENERAL INFORMATION

**Permit #:** FP-17-000009  
**Permit Status:** Issued  
**Issue Date:** 9/21/17

**Parcel #:** 58.575.1700  
**Property Address:** 700 N 1ST AVE  
MOORHEAD, MN 56560

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## CONTACT INFORMATION

<u>Role</u>	<u>Contact Name</u>	<u>Address</u>
Applicant	Moorhead City	PO BOX 779 MOORHEAD, MN 56560

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## PROJECT INFORMATION

### **Additional Information:**

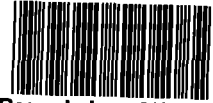
This permit is issued for floodplain management purposes only. The issuance of this permit does not constitute approval or certification of the design of the proposed improvement relative to structural, geotechnical, drainage or any other pertinent consideration, nor the quality or integrity of the constructed project all of which, shall remain the responsibility the owner and his/her consultants and/or contractors.

Transaction#: 209398

773023

RECORDING FEE

\$46 00



Recorded on: 9/19/2017 10:45AM  
By AJH, Deputy

*dms*

Return to  
MOORHEAD CITY  
PO BOX 779  
MOORHEAD, MN 56560

DiAnn M Streifel, Recorder  
CLAY County, MN

58.575.1700 Pt

**RESOLUTION 2017-0911-D**

**Resolution to Approve a Conditional Use Permit - 210 8th St N  
(Memorial Park Bike/Pedestrian Bridge)**

WHEREAS, the City of Moorhead has requested a Conditional Use Permit for a bicycle/pedestrian bridge at 210 8<sup>th</sup> Street North, parcel number 58.575.1700, legally described as Block 4 Holes Addition and Outlot 24D; and

WHEREAS, the Moorhead Planning Commission held a public hearing on September 5, 2017, approved Findings of Fact (Exhibit A), and voted unanimously to recommend approval of the Conditional Use Permit; and

WEHEREAS, the City Council finds the requested Conditional Use Permit consistent with the 2004 Comprehensive Plan, 2009 Comprehensive Plan Addendum and Moorhead City Code.

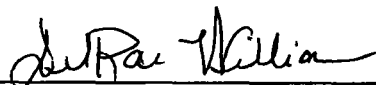
NOW, THEREFORE, BE IT RESOLVED by the City Council of the City of Moorhead, Minnesota that the Conditional Use Permit for a bicycle/pedestrian bridge at 210 8<sup>th</sup> Street North, parcel number 58.575.1700, legally described as Block 4 Holes Addition and Outlot 24D is hereby approved.

BE IT FURTHER RESOLVED by the City Council of the City of Moorhead, Minnesota that the proposed bicycle/pedestrian bridge shall be completed within five years from the date of this approval. Should the bicycle/pedestrian bridge not be completed within five years, this Conditional Use Permit approval will become null and void.

PASSED: September 11, 2017 by the City Council of the City of Moorhead.

APPROVED BY:

ATTEST:

  
\_\_\_\_\_  
DEL RAE WILLIAMS, Mayor

  
\_\_\_\_\_  
MICHELLE FRENCH, City Clerk

**Conditional Use Permit  
Moorhead Planning Commission  
Findings of Fact**

**Exhibit A**

REQUEST: Conditional Use Permit – Bicycle/Pedestrian Bridge in the Floodway Overlay District

LOCATION: 210 8<sup>th</sup> Street North  
Moorhead, MN 565650

APPLICANT/ OWNER: City of Moorhead

File No: 17P015

WHEREAS, the Moorhead Planning Commission received a full and complete application for a Conditional Use Permit from the City of Moorhead, and

WHEREAS, the Moorhead Planning Commission held a public hearing on the above entitled request on September 5, 2017; and

WHEREAS, upon considering the Conditional Use Permit application, staff report and analysis, public testimony and comment, and all other pertinent and available information, the Moorhead Planning Commission finds the following:

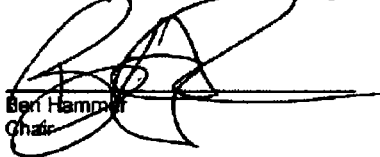
**Findings of Fact**

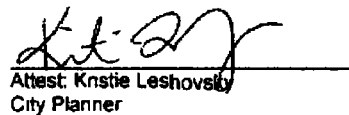
1. A full and complete application was filed by the City of Moorhead and received August 15, 2017 (herein referred to as "Application") seeking a Conditional Use Permit for 210 8<sup>th</sup> Street North, legally described as Block 4 Holes Addition and Outlot 24D to the City of Moorhead
2. The Conditional Use Permit request is for a Bicycle/Pedestrian Bridge in the Floodway Overlay District.
3. The property is zoned P Public as defined the Title 10 of the Moorhead City Code.
4. A public hearing was held by the Planning Commission on September 5, 2017 on the Application allowing all interested persons an opportunity to speak, full and complete record of which is detailed in the minutes of the Moorhead Planning Commission
5. The Conditional Use Permit request has been considered and found consistent with the following considerations.
  - a) The proposed action has been considered in relation to the specific policies and provisions of, and has been found to be consistent with, the official City Comprehensive Plan and with the purpose of the zoning district in which the applicant intends to locate the proposed use.
    - The 2004 Comprehensive Plan and 2009 Addendum guide this property towards Public Use and it is within the Floodway Overlay District. The Moorhead Zoning Code allows Bicycle/Pedestrian Bridge in the Floodway Overlay District as a conditional use.
  - b) The proposed use is or will be compatible with the present and future uses of the area
    - The proposed use is consistent with the Public zoning district and compatible with the present and future uses of the area
  - c) The proposed use conforms to all performance standards contained herein (i.e. parking loading, noise, etc ).
    - The bridge will meet all applicable regulations

- d) The proposed use will not tend to or actually have an adverse effect on the area in which it is proposed.
    - The bridge is used by the community and visitors to the region, is a primary connection to miles of trails in Moorhead and Fargo and has a positive impact on the area.
  - e) Traffic generated by the proposed use is within the capabilities of streets serving the property
    - Traffic generated can be accommodated by adjacent streets.
  - f) The proposed use can be accommodated by public services and facilities including parks, schools, streets and utilities, and will not overburden the City's service capacity.
    - The proposed facility can be accommodated by existing public service facilities.
- 6 The Planning Commission also reviewed the following factors in relation to the Application.
- a) The danger to life and property due to increased flood heights or velocities caused by encroachments.
  - b) The danger that materials may be swept onto other lands or downstream to the injury of others or that may block bridges, culverts, or other hydraulic structures.
  - c) The proposed water supply and sanitation systems and the ability of these systems to prevent disease, contamination, and unsanitary conditions.
  - d) The susceptibility of the proposed facility and its contents to flood damage and the effect of such damage on the individual owner.
  - e) The importance of the services provided by the proposed facility to the community.
  - f) The requirements of the facility for a waterfront location.
  - g) The availability of the alternative locations not subject to flooding for the proposed uses.
  - h) The compatibility of the proposed use with existing development and development anticipated in the foreseeable future.
  - i) The relationship of the proposed use to the comprehensive plan and floodplain management program of the area.
  - j) The safety of access to the property in times of flood for ordinary and emergency vehicles
  - k) The expected heights, velocity, duration, rate of rise and sediment transport of the floodwaters expected at the site.

NOW, THEREFORE, BE IT RESOLVED by the Moorhead Planning Commission that the Planning Commission hereby recommends approval of the Conditional Use Permit request submitted by the City of Moorhead for a Bicycle/Pedestrian Bridge in the Floodway Overlay District at 210 8<sup>th</sup> Street North, legally described as Block 4 Holes Addition and Outlot 24D to the City of Moorhead

PASSED by the Moorhead Planning Commission this 5th day of September, 2017

  
 Ben Hampp  
 Chair

  
 Attest: Kristie Leshovsky  
 City Planner

**CERTIFICATION**

STATE OF MINNESOTA  
COUNTY OF CLAY  
CITY OF MOORHEAD

I do hereby certify that the above Resolution is a true and accurate copy of the Resolution adopted by the Council of the City of Moorhead at an authorized meeting held on the 11<sup>th</sup> day of September, 20 17, as shown by the minutes of the meeting in my possession.

Dated this 15<sup>th</sup> day of September 2017

Michelle French  
Michelle French, City Clerk





# Public Waters Work General Permit Authorization

Expiration Date: 09/25/2022

<b>Authorization Number</b> 2017-3501
<b>General Permit Number</b> 2014-1778

On the basis of statements and information contained in the permit application, letters, maps, and plans submitted by the applicant and other supporting data, all of which are made part hereof by reference, **PERMISSION IS HEREBY GRANTED** to the applicant to perform actions as authorized below. Applicant must comply with all conditions listed in the above referenced General Permit.

<b>Project Name:</b> Oak Grove/Memorial Park Pedestrian and Bicycle Lift Bridge Improvement Project	<b>County:</b> Clay	<b>Watershed:</b> Upper Red River of the North	<b>Resource:</b> Stream/River: Red River ; Stream/River: Red River (H-026)	
<b>Purpose of Permit:</b> Bridge Construction/Modification/Replacement		<b>Authorized Action:</b> Replace the existing pedestrian and bicycle bridge with a 165 foot by 10 foot wide free span lift bridge. Work shall be completed according to the final plans submitted for the project with the permit application and the conditions of this permit.		
<b>Permittee:</b> CITY OF MOORHEAD CONTACT: TROWBRIDGE, TOM, (218) 299-5390 500 CENTER AVE. MOORHEAD , MN 56560 (218) 299-5166		<b>Authorized Agent:</b> N/A		
<b>Property Description (land owned or leased or where work will be conducted):</b> UTM zone 15N, 212821m east, 5198548m north, Section 5, T139N, R48E				
<b>Authorized Issuer:</b> Rodger Hemphill	<b>Title:</b> Area Hydrologist	<b>Issued Date:</b> 09/25/2017	<b>Effective Date:</b> 09/25/2017	<b>Expiration Date:</b> 09/25/2022

This permit is granted **subject to** the following **CONDITIONS**:

**Applicant must comply with all conditions listed in General Permit 2014-1778.**

**EROSION AND SEDIMENT CONTROL:** In all cases, methods that have been determined to be the most effective and practical means of preventing or reducing sediment from leaving the worksite shall be installed in areas that slope to the water and on worksite areas that have the potential for direct discharge due to pumping or draining of areas from within the worksite (e.g., coffer dams, temporary ponds, stormwater inlets). These methods, such as mulches, erosion control blankets, temporary coverings, silt fence, silt curtains or barriers, vegetation preservation, redundant methods, isolation of flow, or other engineering practices, shall be installed concurrently or within 24 hours after the start of the project, and will be maintained for the duration of the project in order to prevent sediment from leaving the worksite. DNR requirements may be waived in writing by the authorized DNR staff based on site conditions, expected weather conditions, or project completion timelines.

**EXCAVATED MATERIALS - FLOODPLAIN CONCERN:** Excavated material shall not be permanently placed within community designated floodplain areas or shoreland areas, unless all necessary local permits and approvals have been obtained.

**FISHERY PROTECTION - EXCLUSION DATES:** No activity affecting the bed of the protected water may be conducted between March 15 and June 15, to minimize impacts on fish spawning and migration. If work during this time is essential, it shall be done only upon written approval of the Area Fisheries Manager. See contact list at:

**CONDITIONS** (Continued from previous page)

[http://files.dnr.state.mn.us/fisheries/management/dnr\\_fisheries\\_managers.pdf](http://files.dnr.state.mn.us/fisheries/management/dnr_fisheries_managers.pdf). Should work begin elsewhere in the project area within these dates, all exposed soils that are within 200 feet of Public Waters and drain to those waters must complete erosion control measures within 24 hours of its disturbance to prevent sediment from entering Public Waters.

**EXCAVATED MATERIALS - RUNOFF CONCERN:** Excavated materials must be deposited or stored in an upland area, in a manner where the materials will not be redeposited into the public water by reasonably expected high water or runoff. Departure from any previously approved spoil disposal plans may be allowed only through permit amendment.

**MAINTENANCE - GENERAL PERMITS:** Maintenance of work covered by this general permit may be performed upon receipt of separate authorization or amended authorization under this permit.

**BEST PRACTICES - MNDOT:** Please refer to the manual "Best Practices for Meeting DNR General Public Waters Work Permit GP 2004-0001" for guidance to meeting these and other conditions of this General Permit. A PDF version is available at: [http://www.dnr.state.mn.us/waters/watermgmt\\_section/pwpermits/gp\\_2004\\_0001\\_manual.html](http://www.dnr.state.mn.us/waters/watermgmt_section/pwpermits/gp_2004_0001_manual.html).

**SMOOTH TRANSITION / MINIMUM ENCROACHMENT:** At each end of the stabilized shoreline, the finished slope of the riprap shall be varied in a fashion to produce a smooth transition with the natural shoreline. Also, riprap encroachment into the water is to be limited to the minimum amount necessary and shall not create an obstruction to normal flows.

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cc: Erik Anthonisen, EWR District Manager  
SRF Consulting Group, Inc., Agent  
Wark, Jamie , Contact; SRF Consulting Group, Inc.  
Phil Seefeldt, Conservation Officers, Moorhead  
Steve Hofstad, BWSR Wetland Specialists, Clay  
Jaime Thibodeaux, DNR Regional Environmental Assessment Ecologist, Region 1  
Don Schultz, DNR Wildlife, Fergus Falls  
Nathan Olson, DNR Fisheries, Detroit Lakes Area  
Tim Magnusson, County, Clay  
Bruce Albright, Watershed District, BUFFALO-RED RIVER WD  
Evan Ingebrightson, Corps of Engineers, Clay  
Kevin Kassenborg, SWCD, Clay SWCD  
Lynn Foss, SWCD, Clay SWCD





**Amended  
Public Waters Work General  
Permit**

<b>General Permit Number</b>
<b>2014-1778</b>

**Expiration Date: 12/31/2018**

Pursuant to Minnesota Statutes, Chapter 103G, and on the basis of statements and information contained in the permit application, letters, maps, and plans submitted by the applicant and other supporting data, all of which are made part hereof by reference, **PERMISSION IS HEREBY GRANTED** to the applicant to perform actions as authorized below. This permit supersedes the original permit and all previous amendments.

<b>Project Name:</b> Region 1 Bridge & Culvert General Permit	<b>County:</b> Becker, Beltrami, Cass, Clay, Clearwater, Douglas, Grant, Hubbard, Kittson, Lake of the Woods, Mahnomen, Marshall, Norman, Otter Tail, Pennington, Polk, Pope, Red Lake, Roseau, Stevens, Traverse, Wadena, Wilkin	<b>Watershed:</b> All watersheds intersecting the 23-county DNR Northwest Region	<b>Resource:</b> All public waters in the 23-county DNR Northwest Region	
<b>Purpose of Permit:</b> Bridge, culvert, and stormwater outfall repair and replacement		<b>Authorized Action:</b> Upon notice to and approval by authorized DNR personnel, replacement or repair of bridges (open-bottom structures), culverts (four-sided box, arch, or rounded pipe or barrel) and stormwater outfalls is authorized. The work will be done according to plans and specifications submitted with the application and subject to all terms and conditions of this permit. All work authorized by this permit must be designed by a licensed professional engineer.		
<b>Permittee:</b> Governmental Agencies, Governmental Subdivisions and General Public		<b>Authorized Agent:</b> N/A		
<b>Property Description (land owned or leased or where work will be conducted):</b>  Various. The permittee must own, control, or have permission to access and use all lands on which the crossing or outfall is located				
<b>Authorized Issuer:</b> Tom Hovey	<b>Title:</b> Water Regulations Unit Supervisor	<b>Issued Date:</b> 10/03/2014	<b>Effective Date:</b> 10/03/2014	<b>Expiration Date:</b> 12/31/2018

This permit is granted **subject to** the following **CONDITIONS**:

**APPLICABLE FEDERAL, STATE, OR LOCAL REGULATIONS:** The permittee is not released from any rules, regulations, requirements, or standards of any applicable federal, state, or local agencies; including, but not limited to, the U.S. Army Corps of Engineers, Board of Water and Soil Resources, MN Pollution Control Agency, watershed districts, water management organizations, county, city and township zoning.

**NOT ASSIGNABLE:** This permit is not assignable by the permittee except with the written consent of the Commissioner

## **GENERAL PERMIT CONDITIONS** *(Continued from previous page)*

of Natural Resources.

**NO CHANGES:** The permittee shall make no changes, without written permission or amendment previously obtained from the Commissioner of Natural Resources, in the dimensions, capacity or location of any items of work authorized hereunder.

**SITE ACCESS:** The permittee shall grant access to the site at all reasonable times during and after construction to authorized representatives of the Commissioner of Natural Resources for inspection of the work authorized hereunder.

**TERMINATION:** This permit may be terminated by the Commissioner of Natural Resources at any time deemed necessary for the conservation of water resources of the state, or in the interest of public health and welfare, or for violation of any of the conditions or applicable laws, unless otherwise provided in the permit.

**COMPLETION DATE:** Construction work authorized under this permit shall be completed on or before the date specified above. The permittee may request an extension of the time to complete the project by submitting a written request, stating the reason thereof, to the Commissioner of Natural Resources.

**WRITTEN CONSENT:** In all cases where the permittee by performing the work authorized by this permit shall involve the taking, using, or damaging of any property rights or interests of any other person or persons, or of any publicly owned lands or improvements thereon or interests therein, the permittee, before proceeding, shall obtain the written consent of all persons, agencies, or authorities concerned, and shall acquire all property, rights, and interests needed for the work.

**PERMISSIVE ONLY / NO LIABILITY:** This permit is permissive only. No liability shall be imposed by the State of Minnesota or any of its officers, agents or employees, officially or personally, on account of the granting hereof or on account of any damage to any person or property resulting from any act or omission of the permittee or any of its agents, employees, or contractors. This permit shall not be construed as estopping or limiting any legal claims or right of action of any person other than the state against the permittee, its agents, employees, or contractors, for any damage or injury resulting from any such act or omission, or as estopping or limiting any legal claim or right of action of the state against the permittee, its agents, employees, or contractors for violation of or failure to comply with the permit or applicable conditions.

**EXTENSION OF PUBLIC WATERS:** Any extension of the surface of public waters from work authorized by this permit shall become public waters and left open and unobstructed for use by the public.

**GP AUTHORIZATION - APPLY USING MPARS:** The permittee shall apply for prior authorization for all projects to be constructed under this General Permit using the MNDNR Permitting and Reporting System (MPARS) at [www.mndnr.gov/mpars/signin](http://www.mndnr.gov/mpars/signin) . Users will need to create an account the first time they access the system. Once created, click on the link for 'Apply for a New Permit/Authorization' under the Actions box and complete the application questions.

**CONTRACTOR RESPONSIBILITY:** The permittee shall ensure the contractor has received and thoroughly understands all conditions of this permit. Contractors must obtain a signed statement from the property owner stating that permits required for work have been obtained or that a permit is not required, and mail a copy of the statement to the regional DNR Enforcement office where the proposed work is located. The Landowner Statement and Contractor Responsibility Form can be found at: <http://www.bwsr.state.mn.us/wetlands/wca/index.html#general>.

**INVASIVE SPECIES - EQUIPMENT DECONTAMINATION:** All equipment intended for use at a project site must be free of prohibited invasive species and aquatic plants prior to being transported into or within the state and placed into state waters. All equipment used in designated infested waters, shall be inspected by the Permittee or their authorized agent and adequately decontaminated prior to being transported from the worksite. The DNR is available to train inspectors and/or assist in these inspections. For more information refer to the "Best Practices for Preventing the Spread of Aquatic Invasive Species" at [http://files.dnr.state.mn.us/publications/ewr/invasives/ais/best\\_practices\\_for\\_prevention\\_ais.pdf](http://files.dnr.state.mn.us/publications/ewr/invasives/ais/best_practices_for_prevention_ais.pdf). Contact your regional Invasive Species Specialist for assistance at [www.mndnr.gov/invasives/contacts.html](http://www.mndnr.gov/invasives/contacts.html). A list of designated infested waters is available at [www.mndnr.gov/invasives/ais/infested.html](http://www.mndnr.gov/invasives/ais/infested.html). A list of prohibited invasive species is available at [www.mndnr.gov/eco/invasives/laws.html#prohibited](http://www.mndnr.gov/eco/invasives/laws.html#prohibited).

**MAINTENANCE:** Maintenance of this project to originally authorized conditions may be authorized by amendment to this permit.

**APPLICABLE PROJECTS:** This permit applies only to the replacement, reconstruction and repair (including associated minor channel or shoreline work) of existing bridges, culverts and outfalls, including that necessary to restore channel dimensions to the original or as-constructed cross-section near the project site. To qualify under this general permit, unless specifically waived by authorized DNR personnel, all projects affecting Public Waters must be designed under the

## **GENERAL PERMIT CONDITIONS** *(Continued from previous page)*

supervision of a registered professional engineer. Any project not meeting applicable conditions of this permit or a project the DNR identifies as having the potential for significant resource impacts, is not authorized herein. Rather, such projects will require an individual permit application.

**PRELIMINARY ENGINEERING** : This permit authorizes preliminary engineering studies associated with bridge planning (e.g. core sampling). All core holes must be sealed in accordance with Department of Health well sealing requirements. On infested waters, all equipment in contact with the water must be decontaminated as required by condition per the Invasive Species condition.

**DNR NOTIFICATION:** The permittee shall notify the Area Hydrologist at least five days in advance of the commencement of the work. An email notification of the pre-construction meeting will suffice for this notification.

**RIGHT TO REVIEW:** The DNR reserves the right to review this permit as additional hydrologic and other data become available and order changes to the authorization as may become necessary to protect public interest. Additional modeling may also be required for temporary fill or temporary structures required during demolition or construction

**HYDROLOGIC/HYDRAULIC DATA REPORTING:** Unless waived by the DNR Area Hydrologist, hydrologic modeling to show the impacts of the structure(s) on the 100-year flood elevation and calculated velocities through the structures for both 2-year and 10-year peak flows are required.

**FLOOD STAGE/DAMAGES NOT INCREASED** : For replacements of existing crossings, if the existing crossing has a swellhead of one-half of one foot or less for the regional flood, then replacement crossing shall comply with the provisions for new crossings in (A) below. If the existing crossing has a swellhead of more than one-half of one foot for the regional flood, stage increased up to the existing swellhead may be allowed if field investigation and other available data indicate that no significant flood damage potential exists upstream from the crossing based on analysis of data submitted by the applicant. The swellhead for the replacement crossing may exceed the existing swellhead if it complies with the provisions found in (A) below. A. No approach fill for a crossing shall encroach upon an approved community designated floodway. When a floodway has not been designated or when a floodplain management ordinance has not been adopted and approved, increases in flood stage in the regional flood of up to one-half of one foot shall be approved if they will not materially increase flood damage potential. Additional increase may be permitted if: a field investigation and other available data indicate that no significant increase in flood damage potential would occur upstream or downstream, and any increases in flood stage are reflected in the floodplain boundaries and flood protection elevation adopted in the local floodplain management ordinance;

**ENVIRONMENTAL REVIEW:** If the bridge, culvert, or stormwater outfall work is part of a road project that requires mandatory environmental review pursuant to MN Environmental Quality Board rules, then this permit is not valid until environmental review is completed. The outcome of the environmental review may affect work authorized by this permit

**STATE AND FEDERAL LISTED SPECIES PROHIBITION:** If there are unresolved concerns regarding impacts to federally or state listed species (endangered, threatened, or special concern), this general permit is not applicable, and the project must be submitted as an individual permit application. Compliance with DNR and federal guidelines established for a listed species (e.g. Topeka Shiner conditions) would constitute a resolved concern.

**RARE NATIVE PLANT COMMUNITIES AND SITES OF HIGH AND OUTSTANDING BIODIVERSITY SIGNIFICANCE:** If DNR Ecological and Water Resources staff determines that Rare Native Plant Communities or Sites of High or Outstanding Biodiversity Significance are present, precautions must be implemented to minimize disturbance and impacts to these areas. Actions to minimize disturbance in this area may include, but are not limited to the following: (1) As much as possible, operate within already-disturbed areas; (2) Minimize vehicular disturbance in the area (allow only vehicles necessary for installation); (3) Do not park equipment or stockpile supplies in the area; (4) If possible, do work in autumn or winter, to avoid damaging plants during the growing season; (5) Reduce runoff by completing the work as rapidly as possible and using erosion control measures such as straw bales or silt fencing; (6) Revegetate disturbed soil with native species suitable to the local habitat as soon after construction as possible; (7) Use only invasive-free mulches, topsoils, and seed mixes.

**FISH PASSAGE, SEDIMENT TRANSPORT AND GRADE CONTROL:** Bridges, culverts and other crossings shall provide for fish movement unless the structure is intended to impede rough fish movement, aquatic invasive species movement, or the stream has negligible fisheries value as determined by the Area Hydrologist in consultation with the Area Fisheries Manager. The accepted practices for achieving these conditions include: A. Where possible a single culvert or bridge shall span the natural bankfull width adequate to allow for debris and sediment transport rates to closely resemble those of upstream and downstream conditions. A single culvert shall be recessed in order to pass bedload and sediment load. Additional culvert inverts should be set at a higher elevation. All culverts should match the alignment and slope of the

## **GENERAL PERMIT CONDITIONS** (Continued from previous page)

natural stream channel, and extend through the toe of the road side slope. "Where possible" means that other conditions may exist and could take precedence, such as unsuitable substrate, natural slope and background velocities, bedrock, flood control, 100-yr (1% chance) flood elevations, wetland/lake level control elevations, local ditch elevations, and other adjacent features. B. Rock Rapids or other structures may be used to retrofit crossings to mimic natural conditions. Please contact your area hydrologist for the most recent design information and other resources on achieving fish passage, sediment transfer, and grade control.

**TERRESTRIAL SPECIES MOVEMENT** : Structures will not be detrimental to significant wildlife habitat. In some cases the DNR may require crossings be designed for species movement. If the crossing is located at a significant wildlife travel corridor as determined by DNR Wildlife or Ecological and Water Resources staff, the crossing will be designed to minimize concerns. Generally, bridges are preferred over culverts if there is adequate clearance beneath road decks and adequate dry ground at normal flow conditions. Design information may be found at [http://files.dnr.state.mn.us/waters/watermgmt\\_section/pwpermits/gp\\_2004\\_0001\\_chapter1.pdf](http://files.dnr.state.mn.us/waters/watermgmt_section/pwpermits/gp_2004_0001_chapter1.pdf).

**FLOWLINE/GRADIENT NOT CHANGED** : Replacement of culverts or crossings are to follow (or be restored to) the natural alignment and profile of the stream. Changes from the existing flowline, gradient or alignment must be consistent with the Water Level Control and Fish Passage conditions and authorized by the DNR Area Hydrologist.

**NAVIGATION MAINTAINED/IMPROVED** : The structures final design will not obstruct reasonable public navigation as determined by the DNR. For bridges 3 feet above the calculated 50-year flood stage ordinarily satisfies navigational clearance requirements. For culverts 3 feet above the ordinary high water level (top of the bank for streams/rivers) ordinarily satisfies navigation requirements.

**WATER LEVEL CONTROL** : Permittee is responsible for maintaining existing water level control elevations.

**TEMPORARY IMPACTS DURING CONSTRUCTION**: Construction methods not finalized at the time of project review shall be submitted for review and approval at a later date. Temporary work below the Ordinary High Water (OHW) elevation, such as channel diversions, placement of temporary fill, structures for work pads/dock walls, bypass roads, coffer dams, or staging areas to aid in the demolition or construction of any authorized structure shall be submitted for review and approval in writing by the DNR Area Hydrologist prior to beginning work. This is normal procedure for bridge or culvert projects as we recognize that final project designs are often posted for bid without final construction/demolition plans. The following conditions must be met:

**A: AQUATIC INVASIVE SPECIES - EQUIPMENT DECONTAMINATION**: All equipment intended for use at a project site must be free of prohibited invasive species and aquatic plants prior to being transported into or within the state and placed into state waters. All equipment used in designated infested waters, shall be inspected by the Permittee or their authorized agent and adequately decontaminated prior to being transported from the worksite. The DNR is available to train inspectors and/or assist in these inspections. For more information refer to the "Best Practices for Preventing the Spread of Aquatic Invasive Species" at [http://files.dnr.state.mn.us/publications/ewr/invasives/ais/best\\_practices\\_for\\_prevention\\_ais.pdf](http://files.dnr.state.mn.us/publications/ewr/invasives/ais/best_practices_for_prevention_ais.pdf). Contact your regional Invasive Species Specialist for assistance at [www.mndnr.gov/invasives/contacts.html](http://www.mndnr.gov/invasives/contacts.html). A list of designated infested waters is available at [http://files.dnr.state.mn.us/eco/invasives/infested\\_waters.pdf](http://files.dnr.state.mn.us/eco/invasives/infested_waters.pdf). A list of prohibited invasive species is available at [www.mndnr.gov/eco/invasives/laws.html#prohibited](http://www.mndnr.gov/eco/invasives/laws.html#prohibited)

**B: WORK EXCLUSION DATES FOR FISH SPAWNING AND MOVEMENT**: Work within Public Waters may be restricted due to fish spawning, migration concerns, or the protection of fish habitat. Dates of fish spawning and migration vary by species and location throughout the state. Specific dates for each DNR Region may be found on page 3 of Chapter 1 of the manual: Best Practices for Meeting DNR General Waters Work Permit GP2004-0001. [http://www.dnr.state.mn.us/waters/watermgmt\\_section/pwpermits/gp\\_2004\\_0001\\_manual.html](http://www.dnr.state.mn.us/waters/watermgmt_section/pwpermits/gp_2004_0001_manual.html). Work in the water is not allowed within these dates. The DNR Area Hydrologist shall be contacted about waiving work exclusion dates where work is essential and/or where permittee demonstrates that a project will minimize impacts to fish habitat, spawning, and migration. All waivers require approval of the Area Fisheries Supervisor.

**C: HYDROLOGIC MODELING**: Hydrologic modeling of temporary fill or temporary structures may be required by DNR Area Hydrologist in order to evaluate impacts to the 100-yr (1% chance) flood elevation. Contingency plans may also be required to ensure all construction equipment and unsecured construction materials are moved out of the floodplain to prevent impacts to the 100-yr (1% chance) flood elevation or from being swept away by flood waters.

**D: TEMPORARY FILL**: If approved, temporary fill shall be free of organic material or any material that may cause siltation or pollute the waterbody. All such material shall be removed and the area restored to pre-existing profiles prior to project completion.

## **GENERAL PERMIT CONDITIONS** (Continued from previous page)

**E : STORAGE/STOCKPILES:** Project materials must be deposited or stored in an upland area, in a manner where the materials will not be deposited into the public water by reasonably expected high water or runoff.

**F: NAVIGATION:** All work on navigable waters shall be so conducted that free navigation of waterways will not be interfered with.

**G: EROSION PREVENTION AND SEDIMENT CONTROL:** In all cases, erosion prevention and sediment control methods that have been determined to be the most effective and practical means of preventing or reducing sediment from leaving the worksite shall be installed in areas that are within 200 feet of the water's edge and drain to these waters, and on worksite areas that have the potential for direct discharge due to pumping or draining of areas from within the worksite (e.g., coffer dams, temporary ponds, stormwater inlets, etc.). These methods include but are not limited to: mulches, erosion control blankets, temporary coverings, silt fence, floating silt curtains or barriers, preservation of vegetative buffers, redundant methods, and isolation of flow around the work area. Sediment perimeter controls shall be installed prior to beginning work. Erosion prevention methods shall be installed concurrently or within 24 hours (if concurrent installation is not practical) after the construction activity in that portion of the project site has temporarily or permanently ceased. Both sediment control and erosion prevention methods must be maintained for effectiveness for the duration of the project

**H : PROTECTING, AND ESTABLISHING VEGETATION:** MnDOT Standard Specifications for protecting and establishing vegetation (spec #2575) of MnDOT Standard Specifications for Construction, 2005 edition, or its successor must be followed to minimize disturbance to such areas, see <http://www.dot.state.mn.us/environment/erosion/specs.html>. This may include, but is not limited to, the following: (1) During the project, parking, placement of temporary structures or material shall not be allowed outside the existing road right-of-way; (2) Place temporary fence at the construction limits and at other locations adjacent to vegetation designated to be preserved; (3) Minimize vehicular disturbance in the area (no unnecessary construction activities); (4) Leave a buffer of undisturbed vegetation between the critical resource and construction limits; (5) Precautions should be taken to ensure that borrow and disposal areas are not located within native plant communities; and (6) Re-vegetate disturbed soil with native perennial species suitable to the local habitat.

**I: MPCA WATER QUALITY REQUIREMENTS:** MPCA administers the requirements of the National Pollutant Discharge Elimination System and the State Disposal System (NPDES/SDS) requirements. To ensure state water quality standards during construction are not violated, check with the MPCA Stormwater Program [www.pca.state.mn.us/stormwater](http://www.pca.state.mn.us/stormwater) for permit application requirements, pollution prevention guidance documents, and additional measures required for work in Special or Impaired Waters. Staff contact information and territories can be found here: <http://www.pca.state.mn.us/wfhya5b>.

**J: TEMPORARY DEWATERING:** A separate water use permit is required for withdrawal of more than 10,000 gallons of water per day or 1 million gallons per year from surface water or ground water. GP1997-0005 (temporary water appropriations) covers a variety of activities associated with road construction and should be applied of if applicable. An individual appropriations permit may be required for projects lasting longer than one year or exceeding 50 million gallons. Information is located at: [http://www.dnr.state.mn.us/waters/watermgmt\\_section/appropriations/permits.html](http://www.dnr.state.mn.us/waters/watermgmt_section/appropriations/permits.html)

**PHOTO AND AS-BUILTS:** Upon completion of the authorized work, the permittee may be required to submit a copy of established benchmarks, representative photographs, and may be required to provide as-built surveys for Public Watercourse crossing changes.

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Permit # 17-077

Status Report: **Approved**

**BUFFALO - RED RIVER  
WATERSHED DISTRICT**

**Applicant Information**

Name	Organization	Address	Email	Phone Number(s)
Jeremy Gorden	City of Fargo	200 3rd Street North Fargo, ND 58102	JGorden@FargoND.gov	tel:701-241-1545 mobile: 701-241-1545 fax:

**General Information**

(1) The proposed project is a:

**Bridge Installation / Removal / Modification**

(2) Legal Description

(3) County: **Clay Township: Moorhead Range: 48 Section: 5 1/4: All of Blocks 4, 68 and 70 and part of 7th St, Holels Addn; Part of outlots 22C, 22D, 24D; all of 23E and 24D, Section 5, T139N R48W**

(4) Describe in detail the work to be performed. **The proposed improvement to the bridge is partially based on the recommendations of the Lifespan and Replacement Study of the Fargo-Moorhead Bicycle/Pedestrian Bridges, completed in June 2006. The proposed improvement includes construction of a new bridge, new bridge abutments with pile foundations, enhanced bridge and approach lighting, and installation of a mechanical lift at the Oak Grove/Memorial park pedestrian and bicycle bridge over the Red River at its existing location.**

(5) Why is this work necessary? Explain water related issue/problem being solved. **The proposed pedestrian and bicycle bridge improvement is needed to increase the number of days the bridge is accessible, to improve the safety and reliability of the structure, enhance walkability in the urban core, and to protect the investment that the cities of Fargo and Moorhead have already made in the bike trail system. The improvement will provide a reliable option for people choosing to walk or bike for their daily commute, while enhancing recreational opportunities along the scenic river corridor and ensuring that the river amenity is accessible as often as possible.**

**Status**

Status	Notes	Date
Approved	None	Aug. 14, 2017
Application Complete	None	Aug. 14, 2017
Received	None	Aug. 14, 2017

**Conditions**

NOTE: This permit does not relieve the applicant of any requirements for other permits which may be necessary from Township, County, State, or Federal Government Agencies.

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**PLAN SECTIONS**

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6	3	Lighting Notes
6	4	Environmental Notes
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11	1	Earthwork & Topsoil Summary
20	1	Temporary Erosion Control - Flotation Silt Curtain
20	2	Sidewalk Pavement Joint & Reinforcement Details
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76	1	Temporary Erosion Control
77	1	Permanent Erosion Control
82	1 - 2	Survey Data Layouts
100	1	Traffic Control Devices List
100	2	Work Zone Traffic Control
140	1 - 5	Lighting
170	1 - 13	Bridge
200	1 - 9	Cross Sections

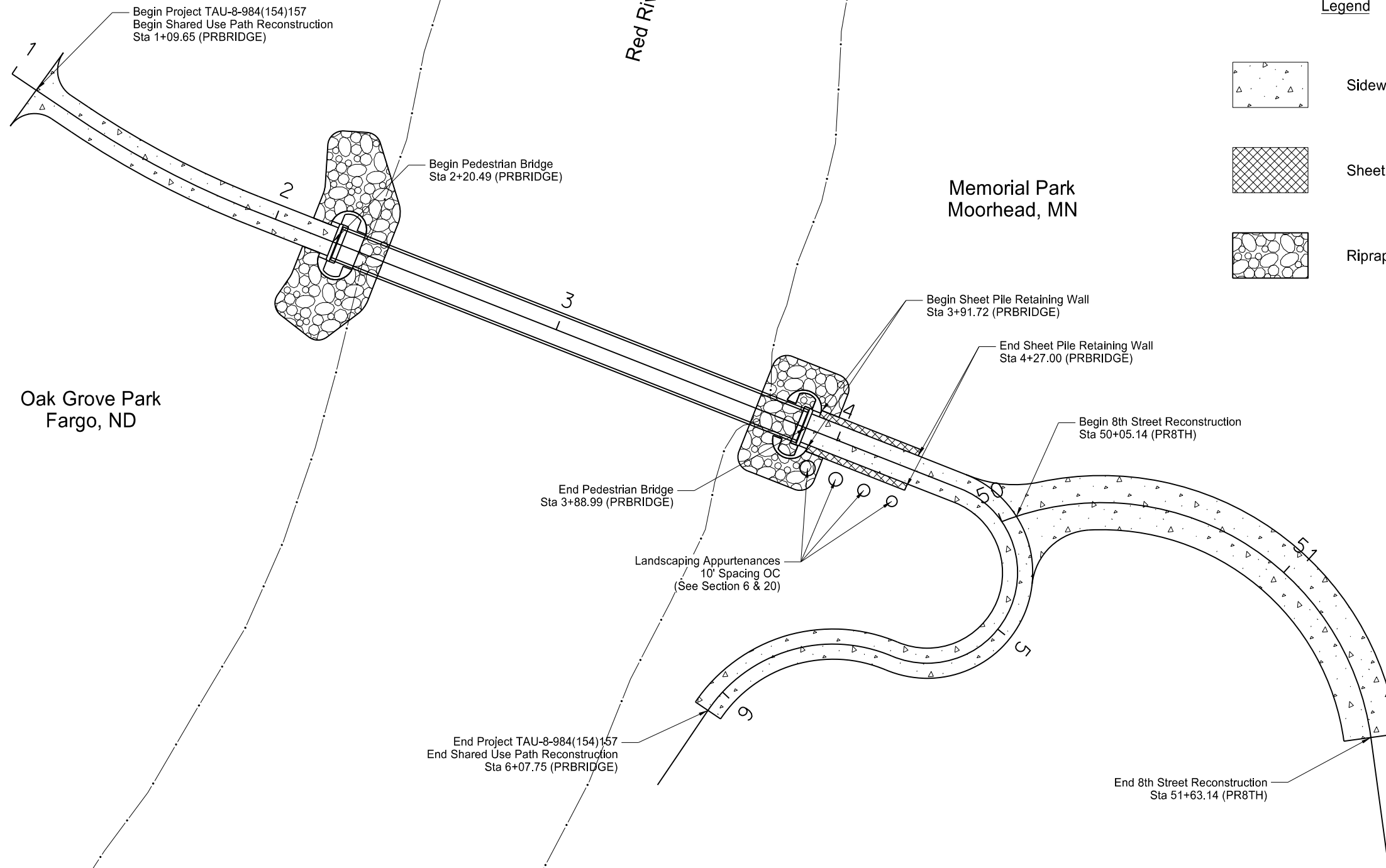
**LIST OF STANDARD DRAWINGS**

Number	Description
D-101-1, 2, 3	NDDOT Abbreviations
D-101-10	NDDOT Utility Company and Organization Abbreviations
D-101-20, 21	Line Styles
D-101-30, 31, 32	Symbols
D-261-1	Erosion Control - Fiber Roll Placement Details
D-550-2	Longitudinal Joint Details
D-550-3	Transverse Contraction Joint Details
D-550-4	Transverse Expansion Joint Detail
D-550-5	Transverse Construction Joint
D-622-1	Pile Splice Details
D-704-7	Breakaway Systems For Construction Zone Signs - Perforated Tube
D-704-8	Breakaway Systems For Construction Zone Signs - U-Channel Post
D-704-9	Construction Sign Details - Terminal And Guide Signs
D-704-10	Construction Sign Details - Regulatory Signs
D-704-13	Barricade And Channelizing Device Details
D-704-14	Construction Sign Punching And Mounting Details
D-704-50	Portable Sign Support Assembly
D-750-2	Sidewalk
D-752-2	Chain Link Fence
D-770-1	Concrete Foundations (Traffic Signals & Highway Lighting)
D-770-2	Feed Points (Roadway Lighting)
D-770-3	Pull Box Details
D-770-4	Lighting And Signal Details
D-900-1	Bridge Bench Marks

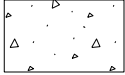
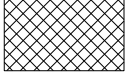
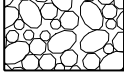
**SPECIAL PROVISIONS**

Number	Description
SP 003(14)	Temporary Erosion and Sediment Best Management Practices
SP 004(14)	Federal Migratory Bird Treaty Act
SP 5182(14)	Permits and Environmental Considerations
SP 553(14)	Architectural Finish and Stain
SP 555(14)	Hoist System

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**Legend**

-  Sidewalk Concrete 4IN
-  Sheet Pile Retaining Wall
-  Riprap Grade II

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**Scope of Work**  
 Oak Grove/Memorial Park Pedestrian Lift Bridge  
 Fargo, ND  
 Moorhead, MN



STATE	PROJECT NO.	SECTION NO.	SHEET NO.
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**NOTES**

- 100-P01 NOISE RESTRICTION: Noise levels will be minimized by ensuring that construction equipment is equipped with a recommended muffler in good working order and by ensuring that construction activities with elevated noise levels are limited to between the hours of 7:00 a.m. and 7:00 p.m.
- 202-P01 REMOVAL OF BITUMINOUS SURFACING: The square yardage of "Removal of Bituminous Surfacing" includes the entire asphalt surfacing within the project work area and the entire aggregate base except the bottom two inches. The quantity of Removal of Bituminous Surfacing has been deducted from the excavation quantity. This work shall consist of removing the existing surfacing and any aggregate base encountered.
- 203-010 SHRINKAGE: 25 percent additional volume is included for shrinkage in earth embankment.
- 203-385 AVERAGE HAUL: No average haul has been computed for this project.
- 216-P01 WATER: Include costs for water required for dust control and compaction efforts in other bid items.
- 302-P01 AGGREGATE BASE COURSE CL 5: Measure aggregate base course as in-place compacted volume (CY). The measured volume will not be adjusted for compaction shrinkage.
- 622-P01 PILE DRIVING: Do not drive piling between the hours of 7:00 p.m. and 7:00 a.m.
- 624-P01 PEDESTRIAN FENCE: Furnish and install removable 3'-6" pedestrian fence to the retaining walls as described in the plans. Include all costs in "Pedestrian Fence".
- 708-P01 SEEDING CLASS III: Use Class III seed as follows:

Species	Pound Pure Live Seed/Acre
Kentucky Bluegrass	132
Creeping Red Fescue	22
Fine Leaf Perennial Ryegrass	66
	220

Apply seeding at a rate of 220 lb/acre. Use starter fertilizer with a mixture of 12-24-12 at an application rate of 220 pounds per acre. After eight weeks or when the grass has been evenly established to a height of 2", whichever occurs first, apply turf fertilizer at a rate of 110 pounds per acre, conforming to a mixture of 24-24-4. Include all costs, including fertilizing, in "Seeding Class III".

- 750-P01 SIDEWALK CONCRETE 4IN: Construct contraction joints every 5.0' on the 10' wide shared use paths. Construct contraction joints every 9.0' on the 18' wide 8th street pavement. Place one-half-inch expansion joints at bituminous tie in locations. Seal all expansion joints with polymeric joint sealant. All sidewalks/paths will have a No. 3 deformed reinforcing bar placed 24" o.c. both ways. The bar will be six (6) inches shorter than the width of the slab and placed accurately at one-half the depth of the slab. Plastic chairs will be used. Saw all longitudinal and transverse joints. Saw a centerline longitudinal joint on the paths. Saw joints in a timely manner to prevent any uncontrolled random cracking. If random cracking occurs, the Contractor will be required to remove and replace all damaged panels at no cost. Include all costs in "Sidewalk Concrete 4IN".
- 750-P02 PIGMENTED IMPRINTED CONCRETE: Develop a mix design using any size coarse aggregate specified in Section 802.01 C.2, "Coarse Aggregate".  
  
Provide a pigment from the list below or provide an approved equal. To be considered an approved equal, pigments must meet the requirements of ASTM C 979.
  1. Number 366 Natural Red, produced by Soloman Colors, Inc. <http://www.solomoncolors.com/>;
  2. Brick Red Pigment Number 160, produced by Davis Colors <http://www.daviscolors.com/>; or
  3. Pigment R/M - Brick Red, produced by Southern Color Company <http://www.southerncolor.com/>.

Use the same supplier for all colored concrete placed under the contract.

Add pigment at the ratio recommended by the manufacturer directly into the mixer along with the aggregate, cement, and water. Add pigment while the mixer is operating at mixing speed. Continue mixing for 5 to 10 minutes or between 50 and 100 revolutions.

Form a pattern in the concrete using a roller to create a 4 inch x 8 inch brick pattern. Cure concrete using curing compound that meets the requirements of ASTM C 309, Type 1.

Include all costs plus the cost of reinforcement shown in the plans in "Pigmented Imprinted Concrete."
- 772-P01 PADLOCKS: Contact Joe Moore to obtain padlocks for feed points from the city of Moorhead, MN.  
Joe Moore  
Electric Operations Manager  
Moorhead Public Service  
500 Center Avenue, PO Box 779  
Moorhead, MN 56561  
Office: 218-477-8083

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**NOTES**

Revised 11/08/17

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
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930-P01 RELOCATE TRUSS BRIDGE: Cut the existing structure into three equal pieces and deliver to:

Fargo Park District  
South Shop  
4515 South University Drive  
Fargo, ND 58104

Contact Dave Leker to coordinate delivery

Dave Leker  
Deputy Director  
Fargo Park District  
701 Main Ave  
Fargo, ND 58103  
Office: 701-499-6073  
[dleker@fargoparks.com](mailto:dleker@fargoparks.com)

Contact Sam DeMarais to coordinate placement of the trees.

Sam DeMarais  
City Forester  
Fargo Parks District  
701-212-0838  
[sdemarais@fargoparks.com](mailto:sdemarais@fargoparks.com)

970-P01 LANDSCAPING APPURTENANCES: Supply and install four boulders at the locations shown in these plans. The size of the boulders will match the approximate height shown in these plans and be at a higher elevation than the adjacent wall height. Include all costs in "Landscaping Appurtenances".

970-P02 TREES: Replace all impacted trees at a 2:1 ratio in their respective cities.

Moorhead:

Hire a reputable nursery to provide, stake, plant, and water trees of either Bur Oak, Triumph Elm, Hackberry, American Linden, or Kentucky Coffeetree species in Memorial and Riverfront Parks. Include all costs in item "Trees."

Contact Rod Eggiman to coordinate placement of the trees.

Rod Eggiman  
City Forester  
City of Moorhead, MN  
218-299-5430  
[rod.eggiman@ci.moorhead.mn.us](mailto:rod.eggiman@ci.moorhead.mn.us)

Fargo:

Hire a reputable nursery to provide, stake, plant, and water trees in accordance to City of Fargo Standard Specifications for Construction Section 7000 "Landscaping" of either Bur Oak, Triumph Elm, Hackberry, American Linden, or Kentucky Coffeetree species in Oak Grove Park. Include all costs in item "Trees."

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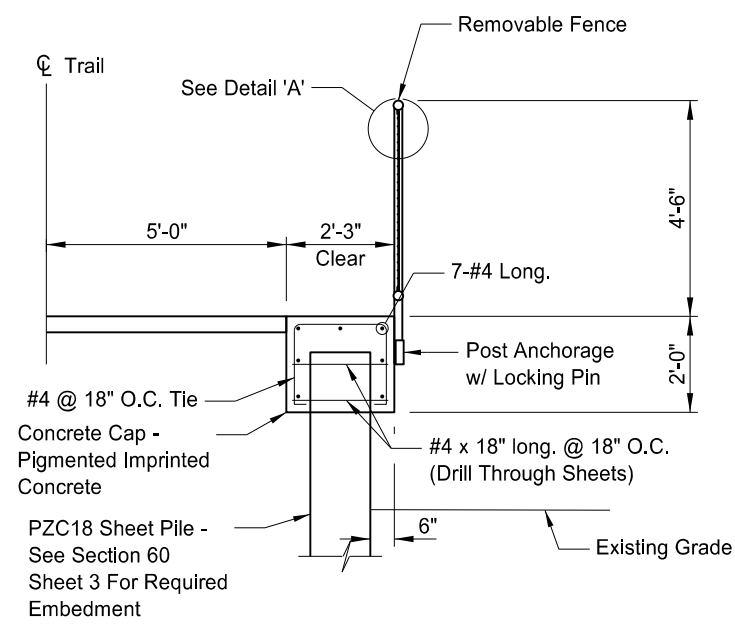
Revised	11/08/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	TAU-8-984(154)157	8	1

Spec	Code	Description	Unit	Quantity
103	0100	Contract Bond	L SUM	1
201	0370	Removal of Trees 10IN	EA	2
201	0380	Removal of Trees 18IN	EA	1
201	0390	Removal of Trees 30IN	EA	7
202	0105	Removal of Structure	L SUM	1
202	0132	Removal of Bituminous Surfacing	SY	1307
202	0310	Removal of Chain Link Fence	LF	872
203	0101	Common Excavation-Type A	CY	122
203	0109	Topsoil	CY	163
203	0119	Topsoil-Imported	CY	99
203	0140	Borrow-Excavation	CY	479
210	0101	Class I Excavation	L SUM	1
210	0201	Foundation Preparation	EA	1
251	0300	Seeding Class III	ACRE	0.32
251	2000	Temporary Cover Crop	ACRE	0.32
253	0101	Straw Mulch	ACRE	0.32
253	0201	Hydraulic Mulch	ACRE	0.32
256	0200	Riprap Grade II	CY	191
261	0112	Fiber Rolls 12IN	LF	684
261	0113	Remove Fiber Rolls 12IN	LF	684
262	0100	Flotation Silt Curtain	LF	266
262	0101	Remove Flotation Silt Curtain	LF	266
302	0121	Aggregate Base Course CL 5	CY	84
602	1130	Class AE-3 Concrete	CY	180
612	0115	Reinforcing Steel-Grade 60	LBS	9420
612	0116	Reinforcing Steel-Grade 60-Epoxy Coated	LBS	18880
616	0360	Structural Steel	LBS	55320
622	0020	Steel Piling HP 10 X 42	LF	2730
622	6760	Steel Sheet Piling	SF	1690
624	0124	Pedestrian Fence	LF	72
702	0100	Mobilization	L SUM	1
704	1000	Traffic Control Signs	UNIT	260
704	1052	Type III Barricade	EA	8
709	0600	Geotextile Fabric-Type RR	SY	375
750	0030	Pigmented Imprinted Concrete	SY	18
750	0115	Sidewalk Concrete 4IN	SY	698
752	0600	Fence Chain Link	LF	872
752	2100	Vehicle Gate	EA	2
752	2120	Remove Vehicle Gate	EA	2
930	3000	Bridge Bench Marks	SET	1
930	9677	Relocate Truss Bridge	L SUM	1
930	9750	Pedestrian Bridge - Pre - Fab	EA	1
970	0001	Landscaping Appurtenances	L SUM	1
970	1000	Trees	EA	20
990	0730	Electrical Service	L SUM	1

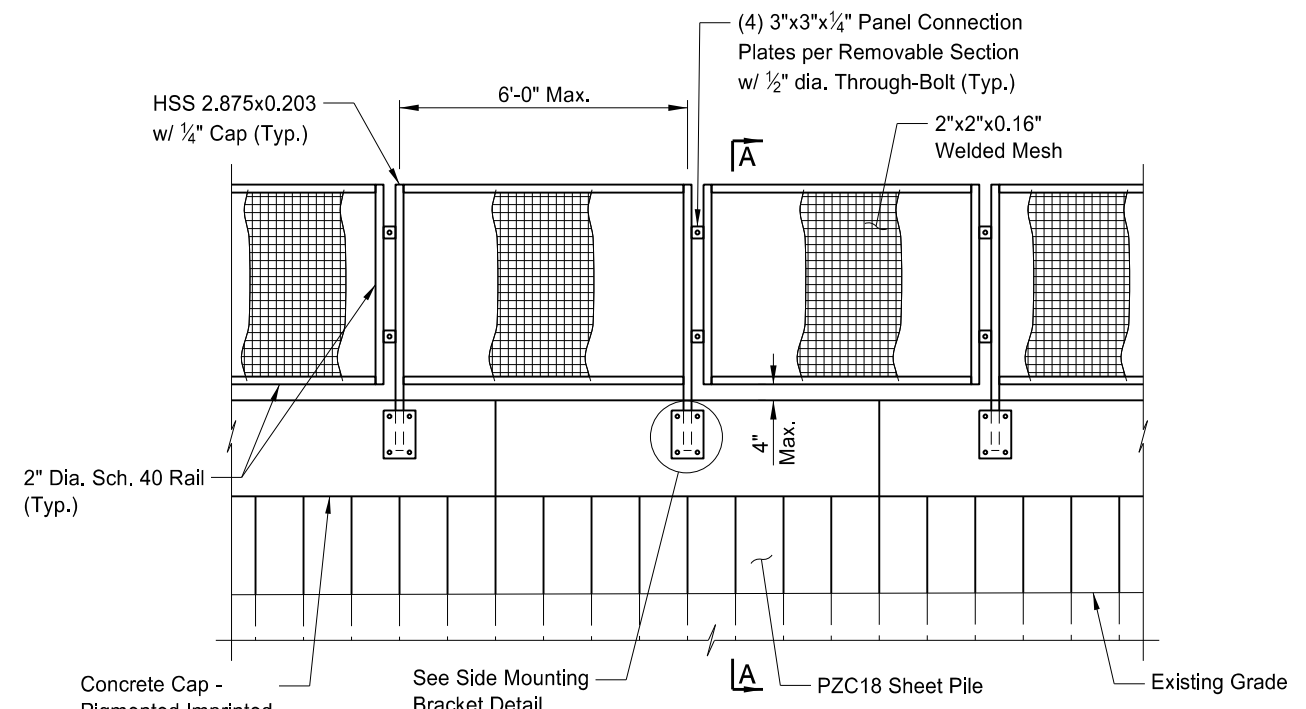
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Estimate of Quantities  
Oak Grove/Memorial Park Pedestrian Lift Bridge  
Fargo, ND  
Moorhead, MN

Revised	11/07/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
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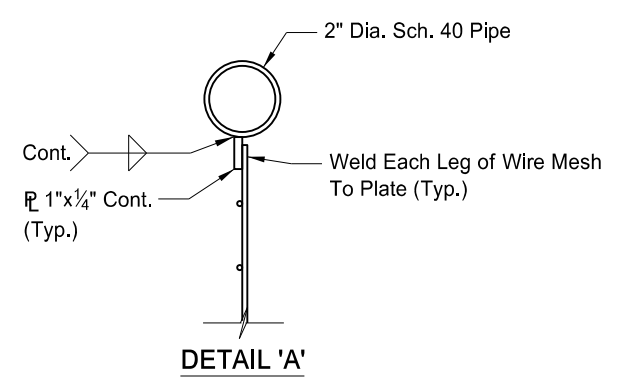
**SECTION A-A**



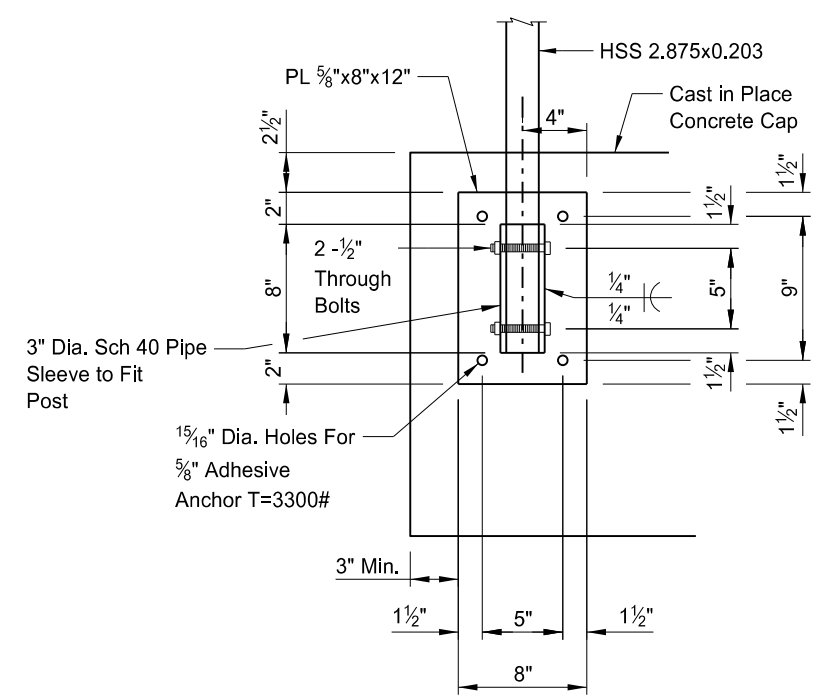
**FENCE ELEVATION**

**NOTES:**

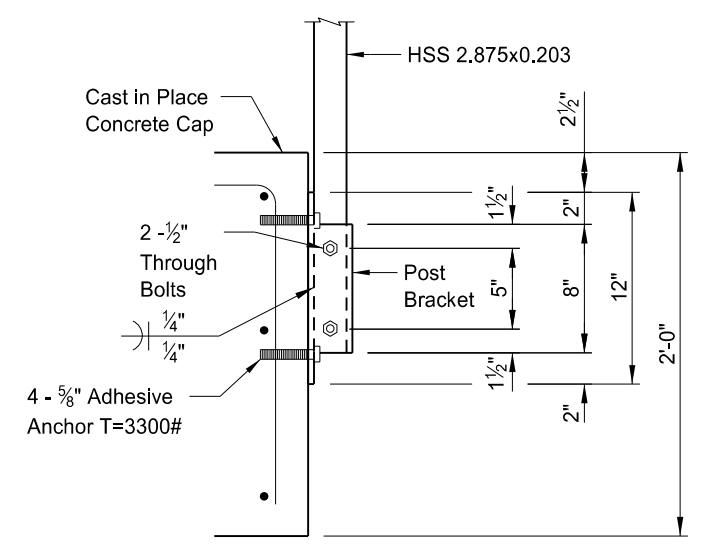
1. All Reinforcing Steel Shall Conform to ASTM A615 Grade 60 and All Bars Shall be Epoxy Coated. Clear Cover is 2" U.N.O. All Reinforcing Bars Are Incidental.
2. All Railing Materials Including Mounting Bracket and Hardware, Shall be Hot Dip Galvanized After Fabrication.
3. To Anchor Base Plates, The Contractor Has The Option To Epoxy In 5/8" Dia. Anchor Bolts Or Place Them In The Concrete At The Same Time Of Pouring. If The Contractor Elects To Drill The Bolt Holes, Caution Shall Be Exercised Not To Damage The Concrete. Each Anchor Bolt Shall Have a Minimum Pullout Capacity of 3,300 Pounds And A Minimum Embedment Of 4". The Anchor Bolts Shall Be ASTM F1554, Grade 36.
4. Steel HSS Shapes: ASTM A500, GRB  
Steel Pipe: ASTM A53, GRB  
Steel Plate: ASTM A36



**DETAIL 'A'**



**SIDE MOUNTING BRACKET FOR POST**

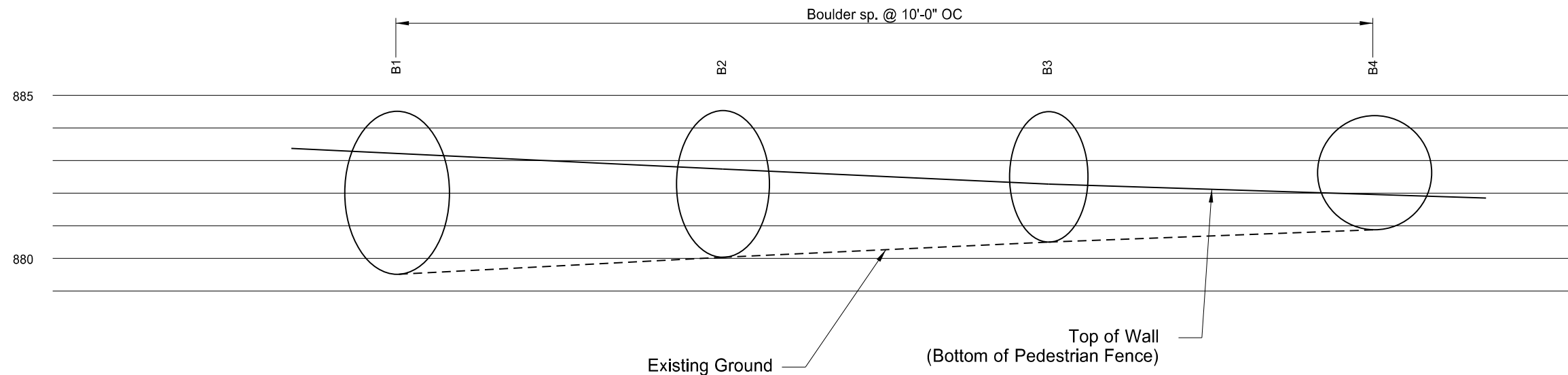


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Details  
Oak Grove/Memorial park Pedestrian Lift Bridge  
Fargo, ND  
Moorhead, MN  
Pedestrian Fence

Added	11/08/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	TAU-8-984(154)157	20	5

970 0001 Landscaping Appurtenances  
3+94 to 4+24 12.25' RT 1 LS



Elevation View

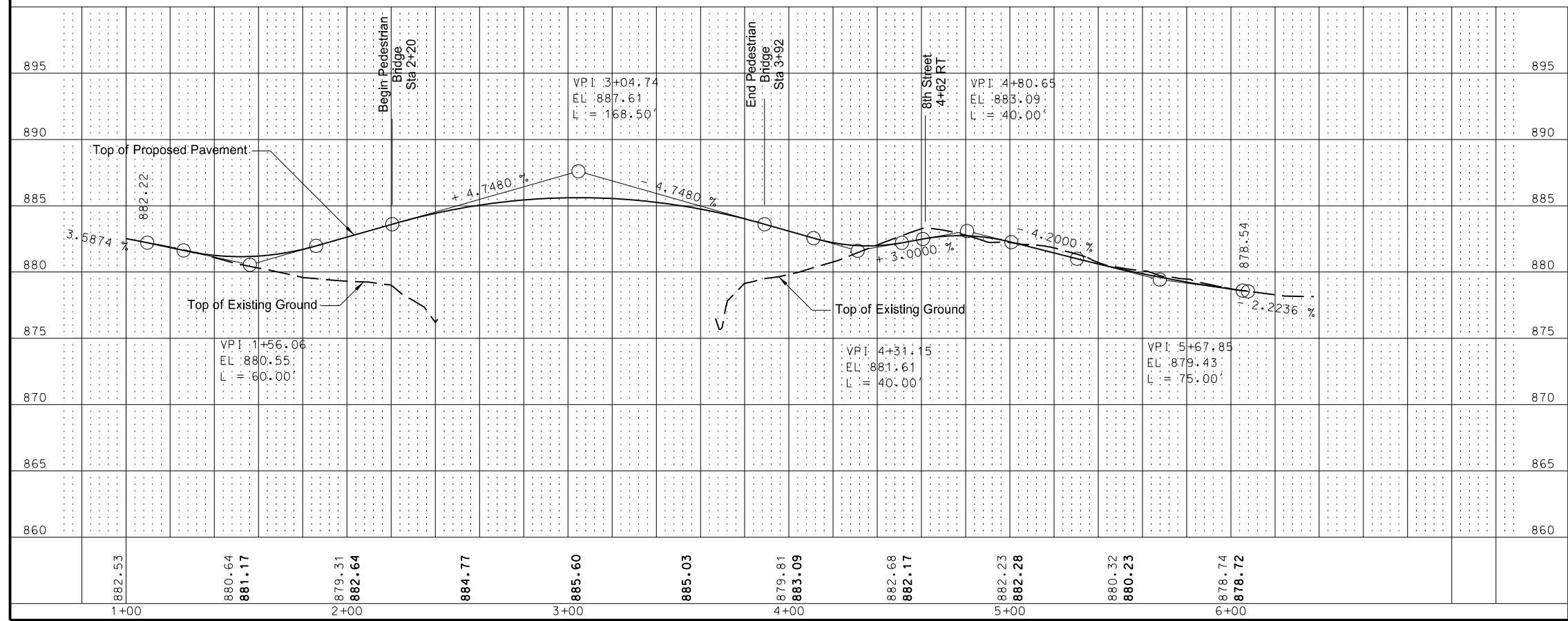
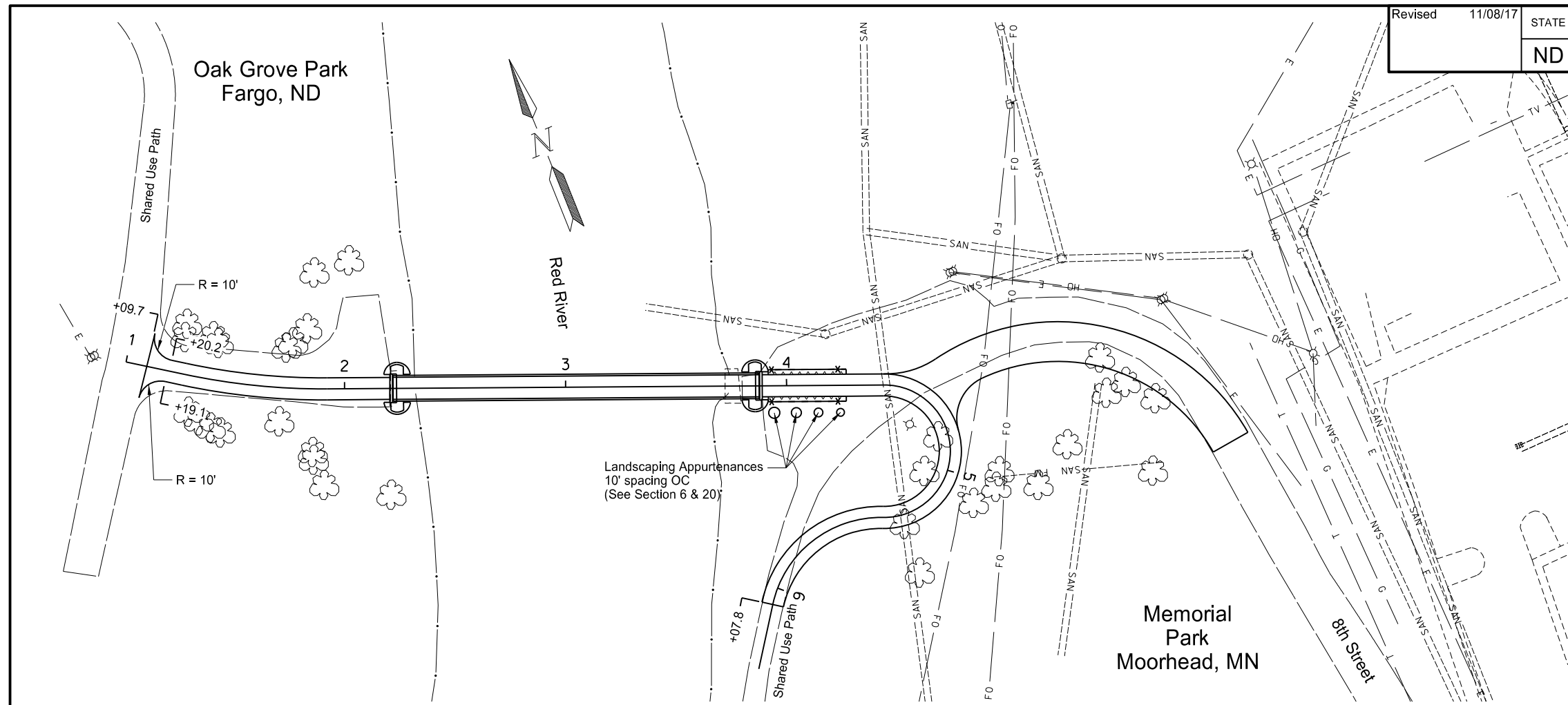
Boulder No.	Station (PRBRIDGE)	Offset (RT) (ft)	Existing Ground Elevation (ft)	Approximate Boulder Height (ft)	Top of Wall Elevation (ft)
B1	3+94	12.25	879.68	5.0	883.22
B2	4+04	12.25	880.06	4.5	882.74
B3	4+14	12.25	880.53	4.0	882.28
B4	4+24	12.25	881.05	3.5	881.96

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Details  
Oak Grove/Memorial park Pedestrian Lift Bridge  
Fargo, ND  
Moorhead, MN  
Landscaping Appurtenances

Revised	11/08/17	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	TAU-8-984(154)157	60	1

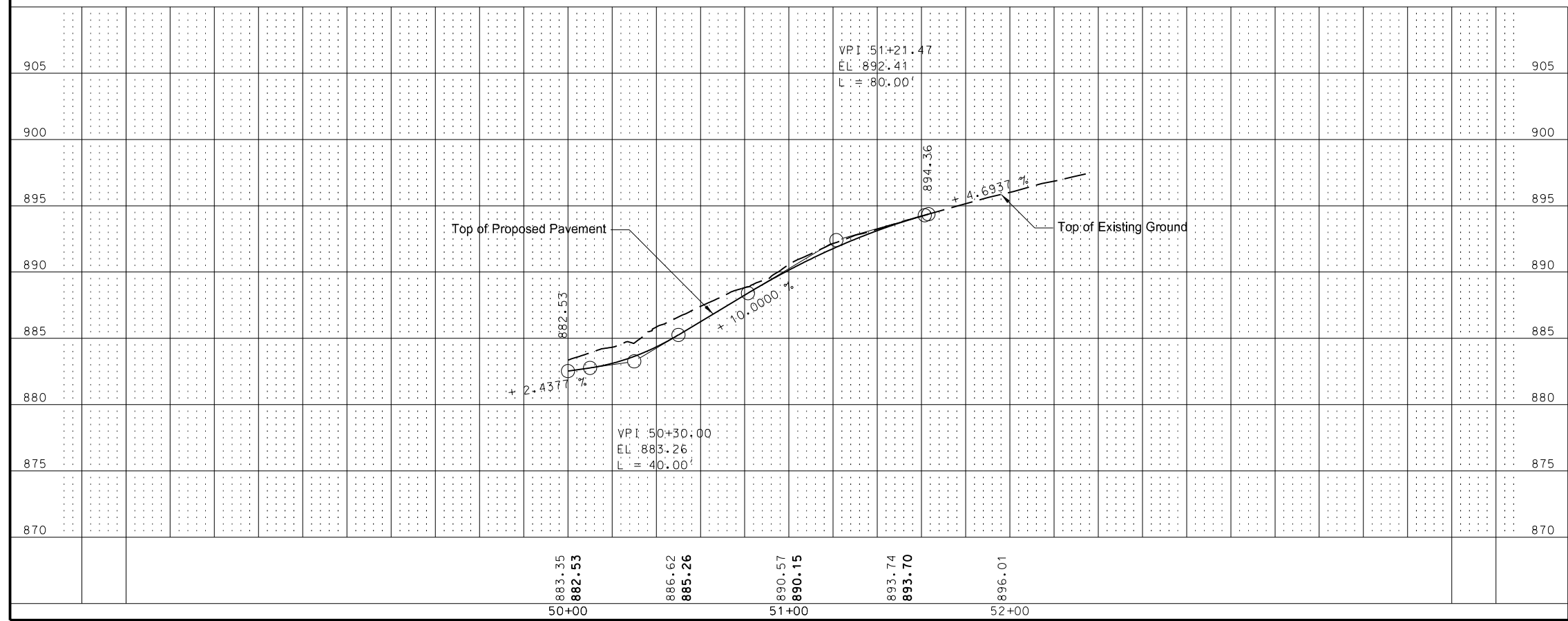
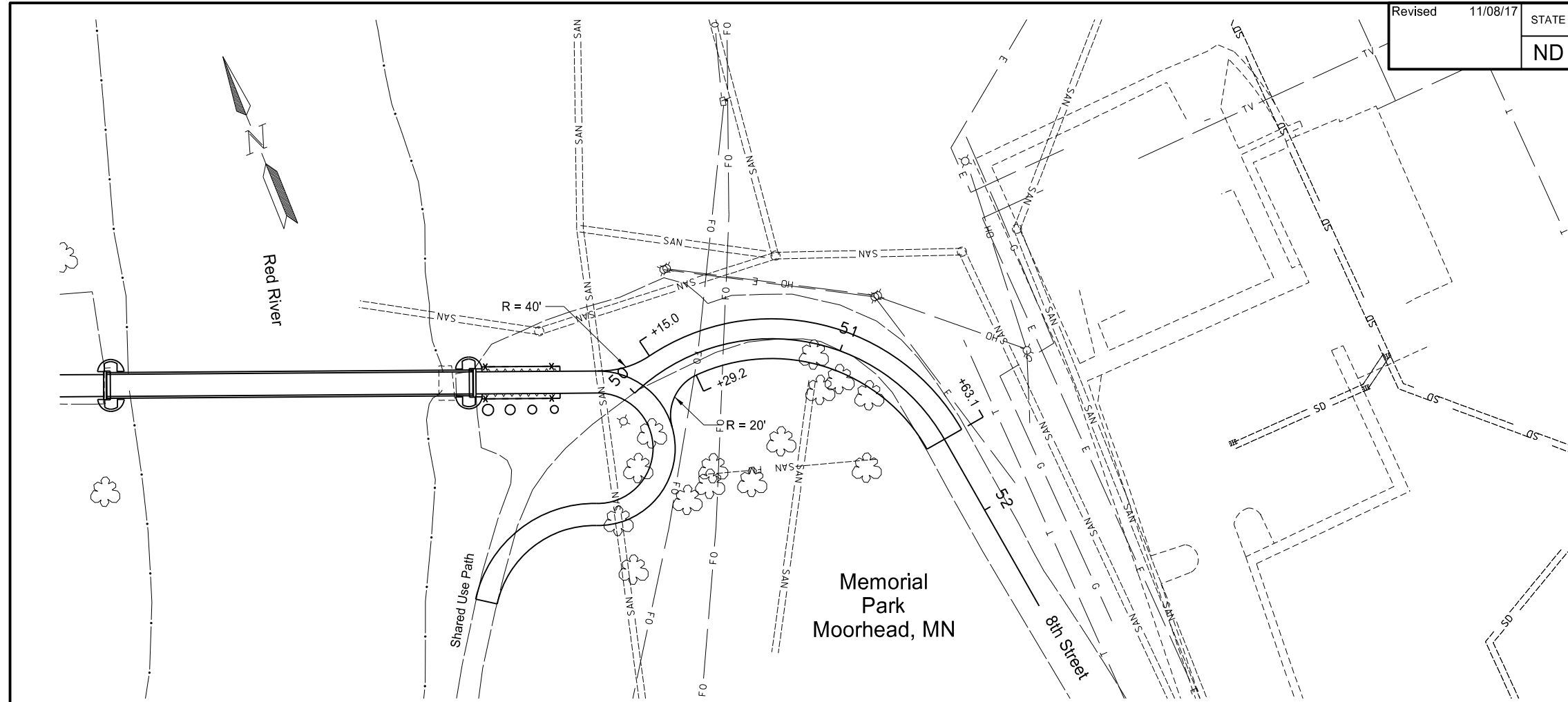
203	0119	Topsoil-Imported		
		Sta 1+09 to Sta 2+20	7	CY
		Sta 3+89 to Sta 6+02	53	CY
		Total =	60	CY
302	0101	Salvaged Base Course		
		Sta 1+09 to Sta 2+21	16	CY
		Sta 3+89 to Sta 6+08	29	CY
		Total =	45	CY
750	0115	Sidewalk Concrete 4IN		
		Sta 1+09 to Sta 2+21	128	SY
		Sta 3+89 to Sta 6+08	243	SY
		Total =	371	SY



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Plan & Profile  
Oak Grove/Memorial Park Pedestrian Lift Bridge  
Fargo, ND  
Moorhead, MN  
Shared Use Path

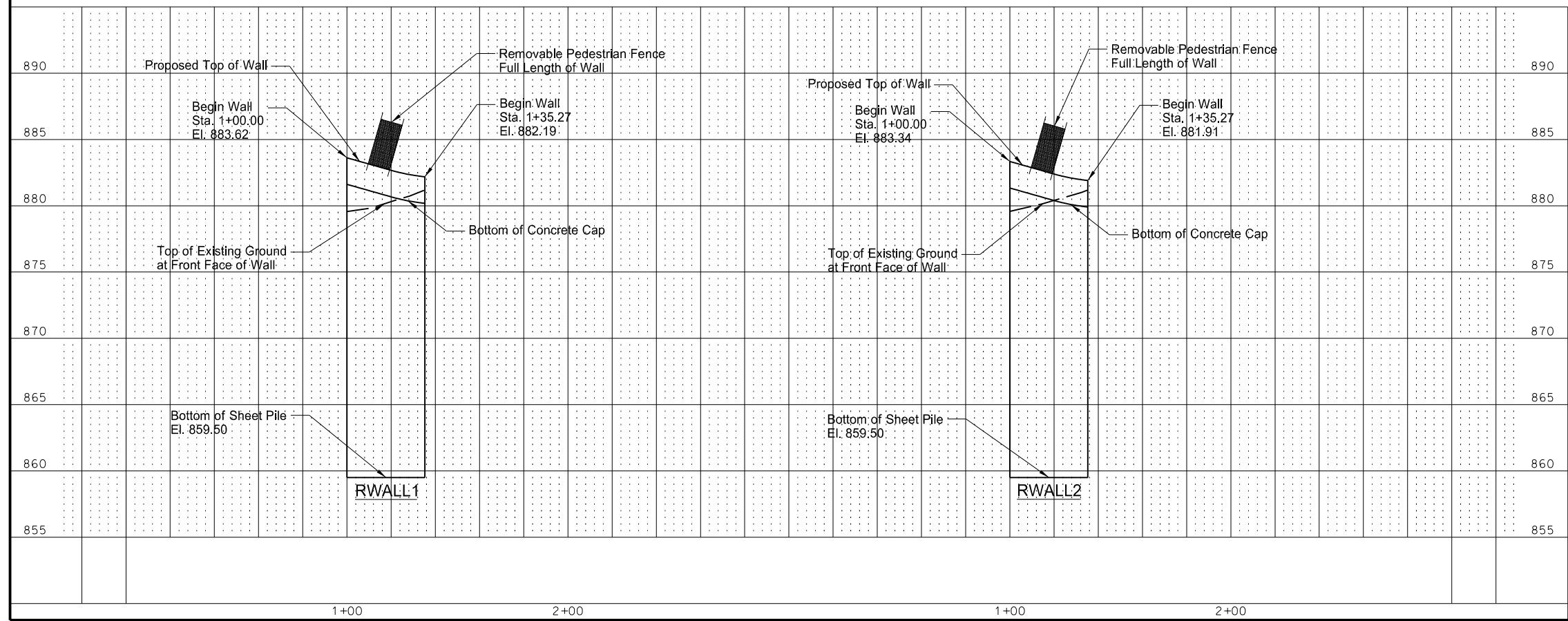
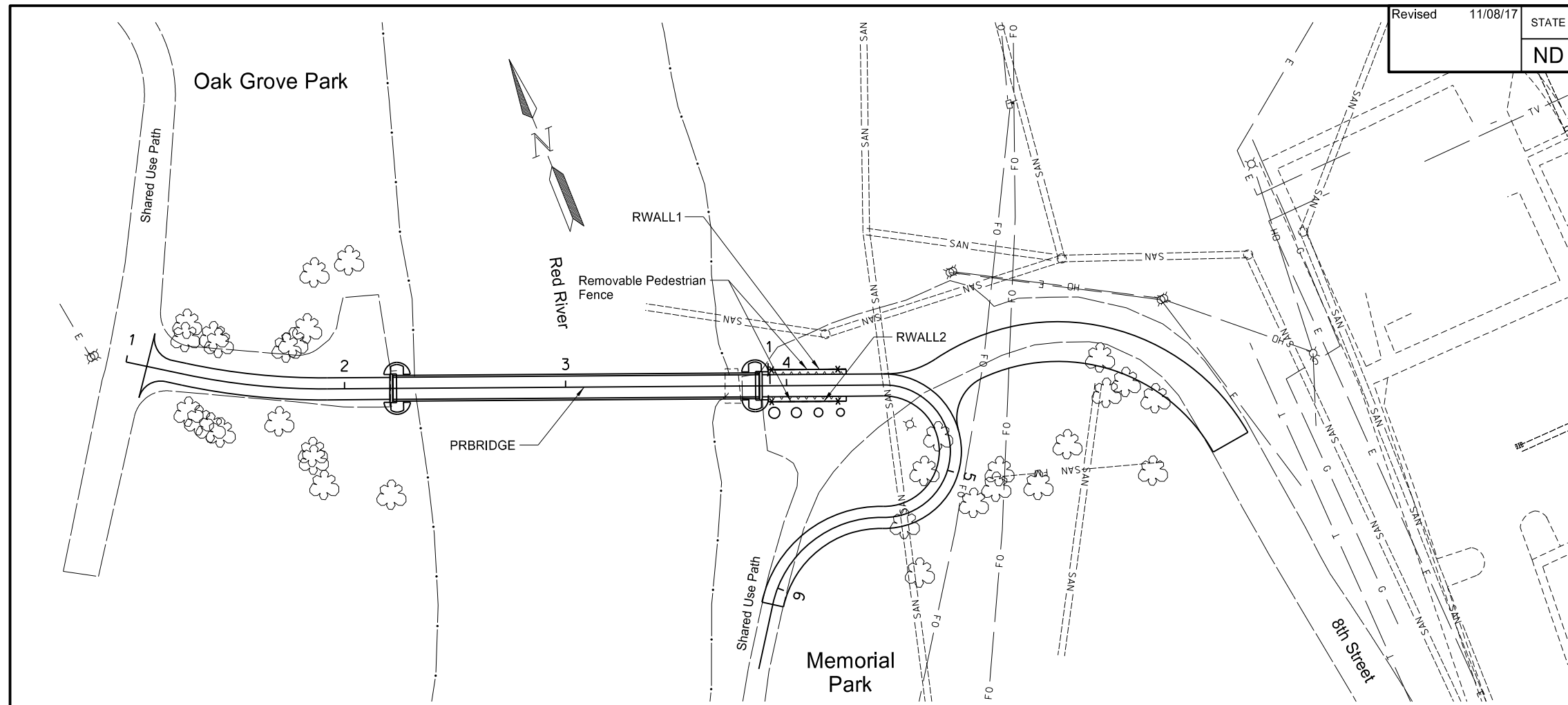
203	0119	Topsoil-Imported		
		Sta 50+02 to Sta 51+63	24	CY
			Total =	24 CY
302	0101	Salvaged Base Course		
		Sta 50+05 to Sta 51+63	39	CY
			Total =	39 CY
750	0115	Sidewalk Concrete 4IN		
		Sta 50+05 to Sta 51+63	327	SY
			Total =	327 SY



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Plan & Profile  
Oak Grove/Memorial Park Pedestrian Lift Bridge  
Fargo, ND  
Moorhead, MN  
8th Street

624	0124	Pedestrian Fence		
		Sta 3+92 to Sta 4+27 LT (PRBRIDGE)	36	LF
		Sta 3+92 to Sta 4+27 RT (PRBRIDGE)	36	LF
		Total =	72	LF
750	0030	Pigmented Imprinted Concrete		
		Sta 3+92 to Sta 4+27 LT (PRBRIDGE)	9	SY
		Sta 3+92 to Sta 4+27 RT (PRBRIDGE)	9	SY
		Total =	18	SY



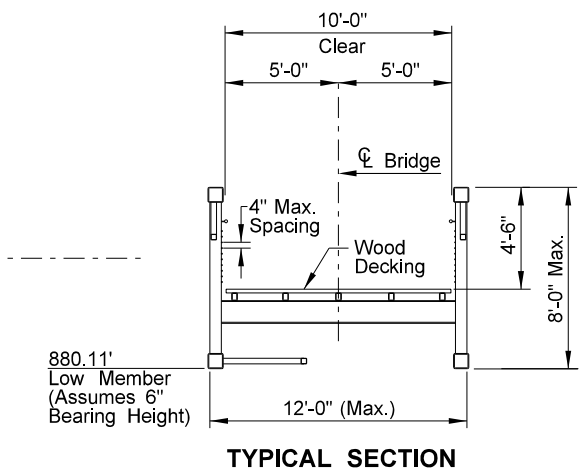
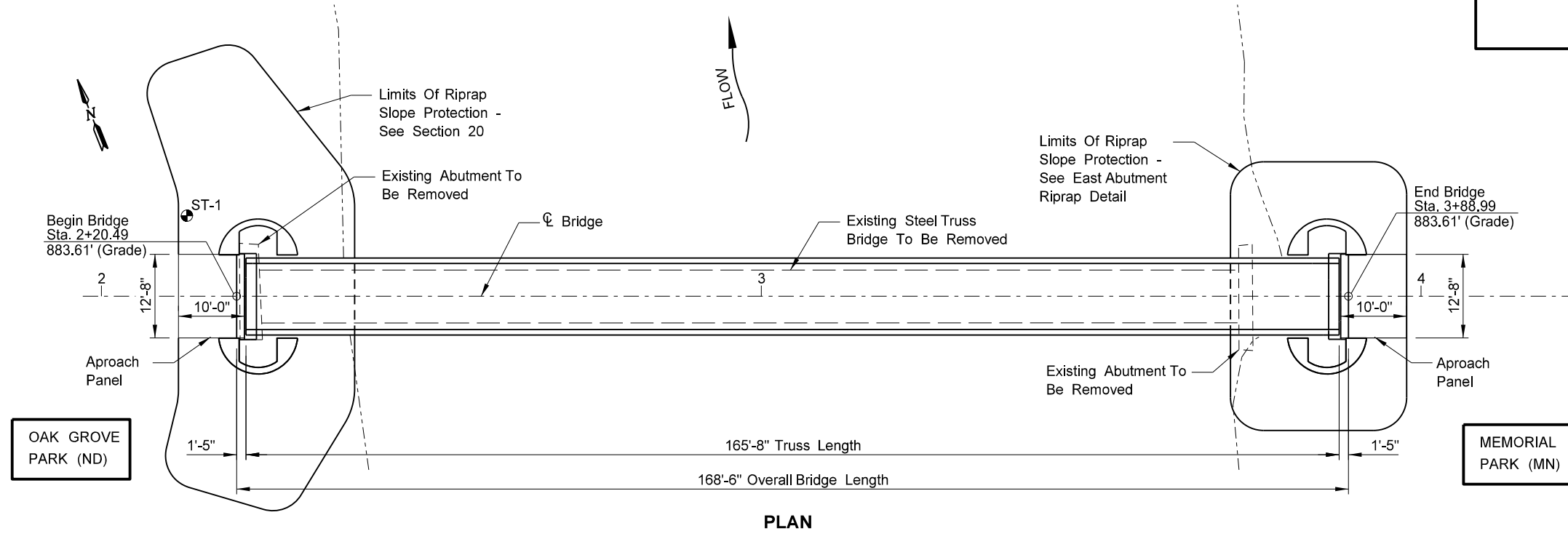
Note: See Pedestrian Fence Detail in Section 20 for More Information

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Plan & Profile  
 Oak Grove/Memorial Park Pedestrian Lift Bridge  
 Fargo, ND  
 Moorhead, MN  
 Sheet Pile Retaining Walls



REVISION 11/06/17	STATE	PROJECT NUMBER	SECTION NO.	SHEET NO.
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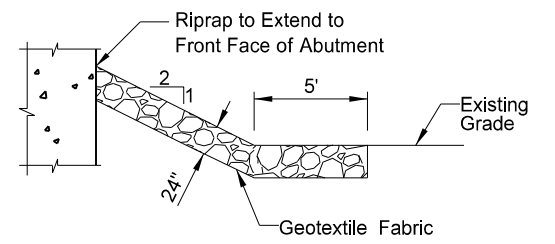
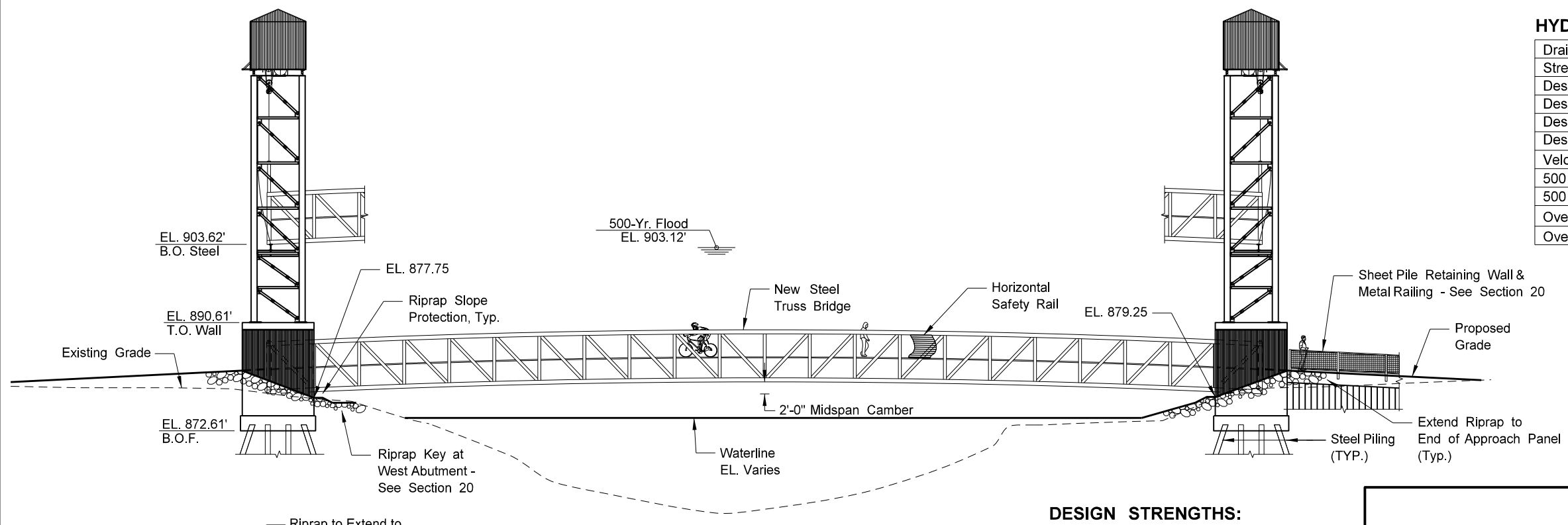
OAK GROVE PARK (ND)

MEMORIAL PARK (MN)

PLAN

HYDRAULIC DATA:

Drainage Area	6,650	sq mi
Stream Gradient	0.0000	ft/ft
Design Frequency	100	yr
Design Discharge	29,300	cfs
Design Headwater Stage	899.68	ft
Design Tailwater Stage	899.67	ft
Velocity Through Bridge	1.2	fps
500 - Year Frequency Discharge	50,000	cfs
500 - Year Frequency Headwater	903.11	ft
Overtopping Stage	881.30	ft
Overtopping Discharge	10,300	cfs



EAST ABUTMENT RIPRAP DETAIL

ELEVATION

DESIGN STRENGTHS:

$f'_c = 4,000$  PSI ~ Class AE-3 Concrete  
 $f_y = 60,000$  PSI ~ Reinforcing Steel  
 $F_y = 50,000$  PSI ~ Structural Steel

LRFD Design Method

ALL ELEVATIONS IN THESE PLANS ARE BASED ON NAVD 88 DATUM

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**SRF** CONSULTING GROUP, INC.

STANDARD DRAWINGS

D-622-01  
D-900-01

90 PSF Pedestrian Live Load

H10 VEHICLE LOADING

CITY OF FARGO  
PEDESTRIAN/BICYCLE BRIDGE AND LIFT TOWERS

BRIDGE LAYOUT

PROJECT: TAU-8-984(154)157  
STATION: 3+04.74  
CASS COUNTY

DATE \_\_\_\_\_ BRIDGE ENGINEER \_\_\_\_\_

# STEEL PEDESTRIAN BRIDGE AND TOWER NOTES

Revised 11/06/17

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	TAU-8-984(154)157	170	2

- 100-P01 SCOPE OF WORK: This work shall consist of constructing the steel pedestrian Bridge, Abutments and lift towers.
- 100-P02 GENERAL: The cost of furnishing and placing preformed expansion joint filler, concrete inserts and other miscellaneous items shall be included in the price bid for Class AE-3 concrete. (Concrete stain to be applied to all exposed concrete surfaces on wingwalls.) The cost of architectural finish and staining treatment on walls shall be included in the price for class AE-3 concrete.
- 202-P01 REMOVAL OF STRUCTURE: Removal of existing steel truss and abutments shall be included in bid price. The Contractor shall remove the existing steel truss per section 6, sheet 2. The Contractor shall remove the concrete at the existing bridge abutments and cut off existing pile 1-foot below new footing. All materials removed shall become the property of the Contractor and shall be disposed of properly off of the right of way. There are approximately 16 cubic yards of concrete to be removed.
- 210-P01 CLASS 1 EXCAVATION: The excavation at the abutments, as shown, shall be included in the lump sum bid item "Class 1 Excavation."
- 210-P02 SELECT BACKFILL: Select backfill shall meet the requirements of Section 816.03, Class 3. The backfill shall be placed in layers of not more than 6 inches, moistened or dried as required, and thoroughly compacted with mechanical tamping equipment.
- 602-P01 SURFACE FINISH "C": Surface finish "C" shall be required for the abutments.
- 612-P01 REINFORCING STEEL: The bar fabricator shall add a prefix to all bar designations to differentiate between the different structures on this project.
- 616-P01 STRUCTURAL STEEL: Bridge closure gate, metal bar grating, steel doors, pulley and winch system and standing seam metal siding shall be incidental to bid item "STRUCTURAL STEEL."
- 622-P01 PILING: Piling shall be driven with a steam, air, or diesel hammer with a rated energy not less than 38,117 foot-pounds-tons, as computed by the formula  $W(E-9,494)+ 0.626E$  where W is the weight of the ram in tons and E is the rated hammer energy. In no case shall the ram weight be less than 3,200 pounds. For double acting or single acting diesel hammers, the safe bearing value of piles shall be determined by the following formula:  
  

$$P = \frac{4.5E}{S+0.2} * \frac{W+0.2M}{W+M}$$
- 900-P01 ELEVATION CHECK POINTS: 4 bolts shall be placed on top of wing walls in line with center of abutment to serve as elevation check points. The cost for this item shall be included in the unit price bid for AE-3 concrete.
- 930-P01 PEDESTRIAN BRIDGE - PREFAB:
  - 1. Scope  
The work included under this Item shall consist of furnishing fully engineered, fabricating, transporting, and erecting a steel truss bridge superstructure including bearings, as shown in the plans and described herein. The intended usage is a shared use path with pedestrian, bicycle and occasional slow moving

maintenance or emergency vehicles. Design and construction of substructures is not included in this item. The bearings shall be designed to attach to the substructure as shown in the plans. These specifications shall be regarded as minimum standards for design and construction.

## 2. Qualifications

The Bridge Manufacturer shall be currently certified by the American Institute of Steel Construction to have the personnel, organization, experience, capability, and commitment to produce fabricated structural steel for Major Steel Bridges as set forth in the AISC Certification Program.

Pre-approved Bridge Manufacturers: Wheeler Lumber, LLC 9330 James Avenue South Bloomington, MN 55431 (800) 328-3986	Contech Construction, Inc. Continental Bridge 8301 State Highway 29 North Alexandria, MN 56308 (800) 328-2047
---------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------

Big R manufacturing, LLC  
 PO Box 1290  
 Greeley, CO 80632-1290  
 (800) 234-0734

Written request by the Contractor for acceptance of any proposed Bridge Manufacturer who is not pre-approved must be present to the Engineer at least 10 days prior to the bid. To insure the proposed substitution will comply with these specifications, the following documentation must be included:

- Proof of AISC Certification
- Representative design calculations
- Splicing and erection procedures
- Welding process
- References and list of projects

The Engineer will evaluate and verify the accuracy of the submittal. If the Engineer determines that the qualifying criteria have not been met, the Contractor's proposed Bridge Manufacturer shall be rejected. Bridge Manufacturer's other than those listed above may only be used if the Engineer provides written approval of the proposed Bridge Manufacturer five days prior to the bid. The Engineer's ruling shall be final.

## 3. Product Description Superstructure Loading:

Plans and Calculations Certification:

The Bridge Manufacturer shall design the prefabricated bridge and prepare shop drawings in accordance with these minimum requirements. All calculations and shop drawings shall be sealed by a Professional Engineer licensed in the State of North Dakota.

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# STEEL PEDESTRIAN BRIDGE AND TOWER NOTES

Revised 11/06/17

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## Applicable Codes:

Design shall be governed by the current design specifications of the American Association of State Highway and Transportation Officials (AASHTO), supplemented with the current edition of American Institute of Steel Construction (AISC) including the Design Specification for Steel Hollow Structural Sections, further supplemented with the current edition of American Welding Society (AWS) D1.1 Structure Welding Code, as modified and further supplemented herein. Structural members shall be designed in accordance with recognized engineering practices and principles.

## Truss Style:

The truss type shall be as determined by the Bridge Manufacturer with a web member style as determined by the Bridge Manufacturer.

Pratt or Howe style trusses with an odd number of bays shall have crossed diagonals in the middle bay. Any crossed diagonals shall be of equal dimension. Overhead (portal) bracing is prohibited.

Span length = 165'-8" measured out-to-out of bridge superstructure.

Max Gross Bridge Weight = 110,000 lbs.

## Camber:

The bridge shall be cambered per sheet number 1 with additional camber to offset the calculated dead load deflection.

## Deck Width:

Bridge clear deck width = 10'-0" as measured between the inside face of the railing or structural elements other than handrails.

## Geometry Limitations:

Abutment backwall height = 4'-0"

Abutment bridge seat width = 1'-10"

Maximum Bridge Dimensions (O.D.) = 12'-0" W x 8'-0" H

Top of deck elevation (at Oak Grove) = 883.61'

Top of deck elevation (at Memorial) = 883.61'

Station at midpoint of bridge = 3+04.74

## Superstructure Loading:

In addition to dead, live (pedestrian), water (buoyancy and stream pressure), and wind loads as specified by AASHTO, the bridge shall be designed to accommodate the following loads:

- Point Load = 1000 lbs. plus impact, applied at a single point
- Vehicle Load AASHTO H10

For occasional slow moving maintenance or emergency vehicles impact is not required.

## Vibration:

The vibration design for this bridge shall be a level two design. For level two design, the peak acceleration of the truss and of deck systems shall be limited to 5% gravity. Peak acceleration shall be computed based on a constant force of 92 pounds, and a damping ratio of 0.01. Peak acceleration of the truss and of deck systems may be computed independently without consideration of a combined effect. Peak acceleration in deck systems shall be computed with consideration of the combined effect of longitudinal components and floor beams.

## Deflection:

Wind deflections of the truss, as measured at deck level, shall be limited to L/500. Deflections in transverse deck framing due to point or truck load shall be limited to L/300 or 0.1". Impact shall be included in deflection checks as applicable.

Deflection of the truss due to uniform live load shall be limited to L/500. Deflections in longitudinal deck members due to uniform live load shall be limited to L/500. No other service deflection limits need be considered.

## Truss and Lift Tower Material:

All members of the truss and deck system shall be fabricated from square/rectangular hollow structural sections (HSS) with the exception that floor beams may be wide flange (W) shapes. Open ends of end posts and floor beams shall be capped. Open shaped (non-tubular) stringers will be allowed only when the Bridge Manufacturer warrants the stringer design for 50% overload.

Steel material shall be corrosion resistant high-strength low-alloy material meeting ASTM A242, A588, A606, or A847 with a minimum corrosion index of 5.8 per ASTM G101.

Minimum thickness of tubular steel members (not including railings) shall be 1/4-inch for primary truss members and 3/16-inch elsewhere. Where water collection inside of structural tubing is possible during construction or service, weep holes shall be provided at low points.

## Steel Finish:

All exposed steel surfaces of lift towers and gate shall be painted after fabrication per section 616 of the NDDOT standard specification. Color to match federal color "Brown" number 30045, and shall meet federal standard no. 595B colors. All costs associated with painting shall be included in the unit price bid for Structural Steel. Any required re-coating will be done by the contractor, subject to the engineer's approval. Bridge is uncoated.

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# STEEL PEDESTRIAN BRIDGE AND TOWER NOTES

Revised 11/06/17

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## Field Splice:

Field splices shall be fully bolted slip critical connections, and utilizing tension indicating washers is optional. Tack welding of high strength hardware is prohibited. Splices not immediately at or adjacent to panel points shall be designed for 100 percent of the member bending moment capacity for primary compression members, and 75 percent for bracing members or tension members subject to load reversal, including slip resistance, and slip resistance shall further meet the same AASHTO required strength as with other failure modes.

Splices for truss members, bracing, and floor beams, shall be made with Type 3 bolts. Exposed portions of type 3 bolts shall be painted with like color of material being bolted.

## Handrail:

Handrails shall be galvanized steel or aluminum. Actual outside diameter shall be 1 1/4-inch minimum, 1 1/2-inch maximum. The top of the handrail shall be 36-inches plus or minus 2-inches above the deck surface. The handrail shall have a minimum 1 1/2-inch knuckle space, shall not rotate within fittings, and shall have returns at each end.

## Decking:

The bridge deck shall be ACQ pressure treated douglas fir with thickness and reinforcement to be determined by the bridge manufacturer. Deck fastening systems shall be designed to resist all uplift forces determined in accordance with AASHTO Specifications.

## Bolting:

All bolts shall be 7/8"  $\phi$  A325 Type 3 bolts unless noted otherwise.

## Welding:

Welding and weld qualification tests shall conform to the provisions of AWS D1.1. The flux core arc welding (FCAW) process, utilizing E70 electrodes with similar weathering characteristics as the base material, shall be used. Welding operators shall be properly accredited experienced operators. Each shall have certification of satisfactorily passing AWS standard qualification tests for the 3G and/or 4F position(s), evidence of experience and skill in welding structural steel, and have demonstrated the ability to make acceptable welds of the type required.

Non-destructive weld testing is required. Testing will be performed by a independent ASNT Level II Technician or greater and be paid for by the owner. All welds are to be 100 percent visually inspected. Ten percent (10%) of all fillet and partial penetration welds shall be magnetic particle tested. For arch type bridges, 100 percent of end of top chord to bottom chord connections shall be tested. Full penetration shop welds shall be Ultrasonic tested in accordance with AWS D1.1; Section 6. Base material certifications are to be supplied by the material suppliers. Inspection test results shall be submitted to the engineer.

## Other requirements:

Self-tapping and self-drilling screws are not acceptable for any portion of the bridge structure.

Cover plates shall be provided to cover expansion gaps. Cover plates shall fit tight to the top of the abutment backwall without any bridge weight bearing on the backwall. Consider joint size and weight of vehicles when determining plate thickness.

Bridge bearing system shall be designed and supplied by the bridge manufacturer.

The anchor systems shall be designed and supplied by the Bridge Manufacturer. Cast in place anchors or drilled anchors installed with an approved chemical adhesive system shall be used for anchorage. Anchor bolts shall conform to ASTM A307, A193, or F1554.

All hardware (other than type 3 high strength) shall be hot-dip galvanized in accordance with ASTM A153.

Cementitious non-shrink grout, when applicable, shall meet ASTM C-1107, 7000 psi minimum.

Materials not specified shall conform to applicable ASTM or AASHTO specifications.

## 4. Submittals

The Bridge Manufacturer & Structural Steel fabricator shall prepare and submit six (6) sets of shop drawings and structural calculations (bridge only) and obtain approval prior to beginning fabrication. Shop drawings shall be unique drawings prepared to illustrate the specific portion of the work to be done. All relative design information including but not omitted to governing codes, design details, dimensions related to substructures and general notes shall be clearly specified on the drawings. Shop drawings shall be accurately prepared by skilled drafters to be complete in every respect. Drawings shall have cross-referenced details and sheet numbers.

The Bridge Manufacturer & Structural Steel fabricator shall submit a certificate of compliance stating that all materials and fabrication are in compliance with the contract documents and applicable codes.

## 5. Delivery

The Contractor shall coordinate with the Bridge Manufacturer in the delivery and erection schedule. The Bridge Manufacturer shall provide detailed, written instruction procedures for proper lifting and splicing of bridge components.

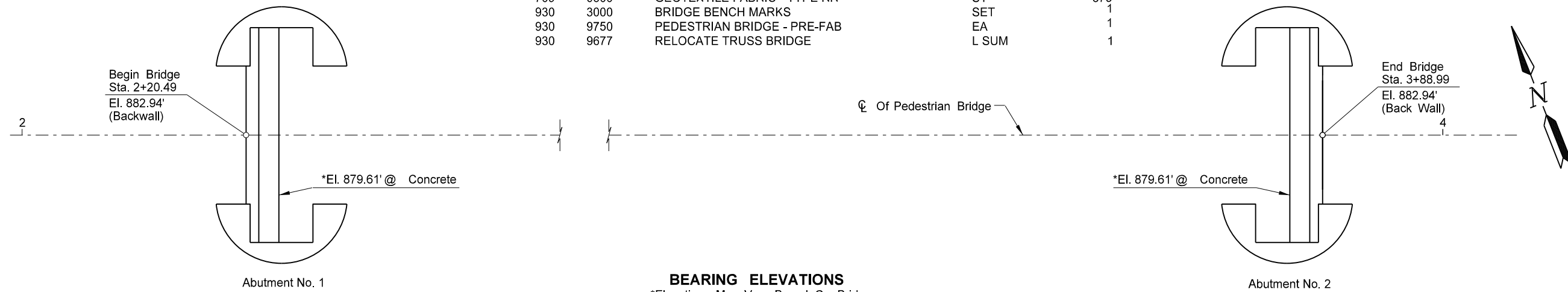
SHOP DRAWINGS: The Contractor shall submit the following shop drawings to the Engineer for review:

- 1. Bridge
- 2. Bridge Bearing

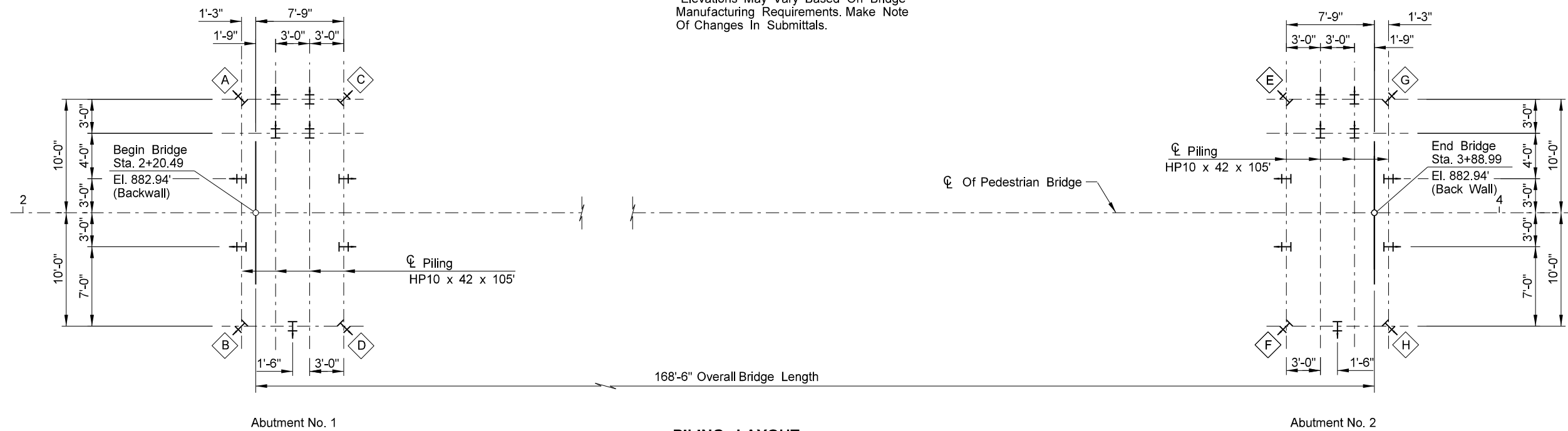
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SPEC	CODE	ITEM DESCRIPTION	UNIT	QUANTITY
202	0105	REMOVAL OF STRUCTURE	L SUM	1
210	0101	CLASS I EXCAVATION	L SUM	1
210	0201	FOUNDATION PREPARATION	EA	1
256	0200	RIPRAP GRADE II	CY	191
602	0130	CLASS AE-3 CONCRETE	CY	180
612	0115	REINFORCING STEEL-GRADE 60	LBS	9420
612	0116	REINFORCING STEEL-GRADE 60-EPOXY COATED	LBS	18880
616	0360	STRUCTURAL STEEL	LBS	55320
622	0020	STEEL PILING HP 10 X 42	LF	2730
622	6760	STEEL SHEET PILING	SF	1690
709	0600	GEOTEXTILE FABRIC - TYPE RR	SY	375
930	3000	BRIDGE BENCH MARKS	SET	1
930	9750	PEDESTRIAN BRIDGE - PRE-FAB	EA	1
930	9677	RELOCATE TRUSS BRIDGE	L SUM	1



**BEARING ELEVATIONS**  
 \*Elevations May Vary Based On Bridge Manufacturing Requirements. Make Note Of Changes In Submittals.



**PILING LAYOUT**

**LEGEND**  
 I - HP10 x 42 Pile  
 † Direction Of 4" Horizontal To 12" Vertical Batter

**NOTE:**  
 HP10 x 42 Piles Shall Be Driven To 110 Tons.

PILE	NORTHING	EASTING
A	464079.33	2901106.50
B	464060.72	2901099.18
C	464076.04	2901114.88
D	464057.42	2901107.56
E	464020.01	2901257.25
F	464001.40	2901249.93
G	464016.72	2901265.63
H	463998.11	2901258.30

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Pedestrian/Bicycle Bridge Lift Towers

**BEARING ELEVATIONS & PILING LAYOUT**

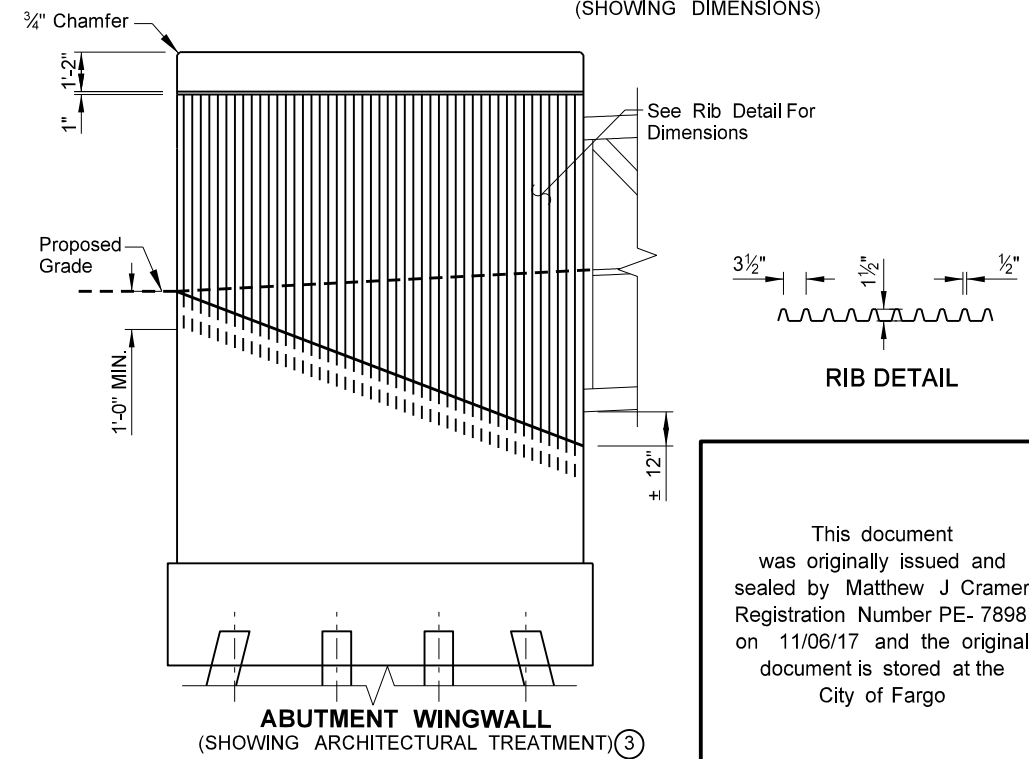
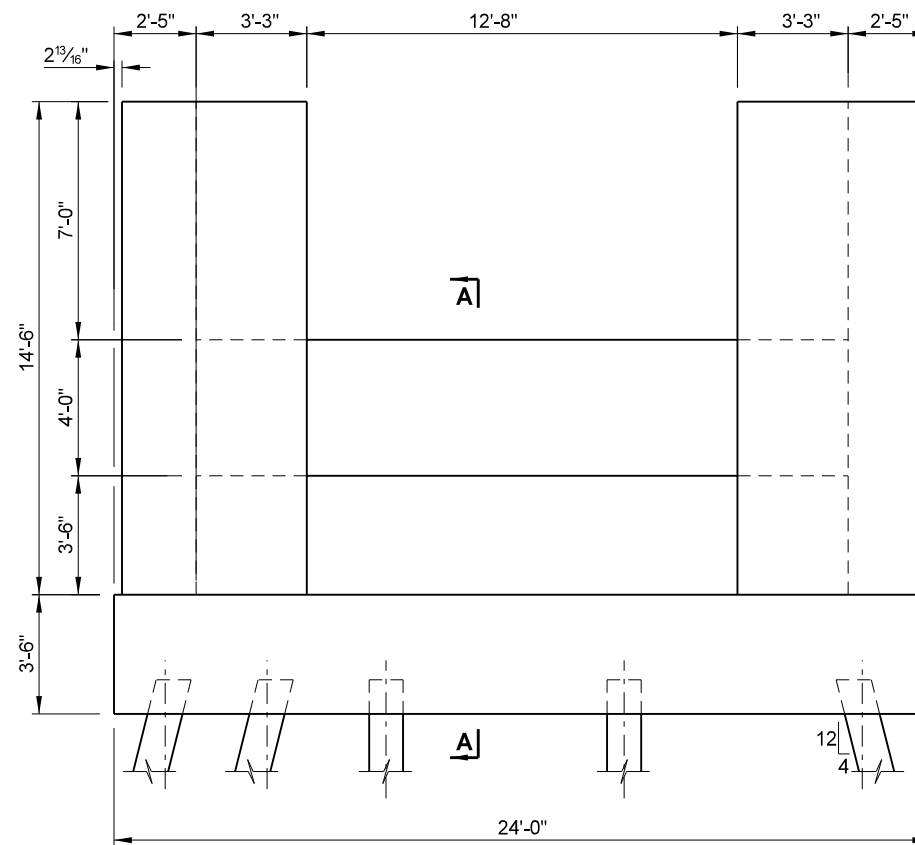
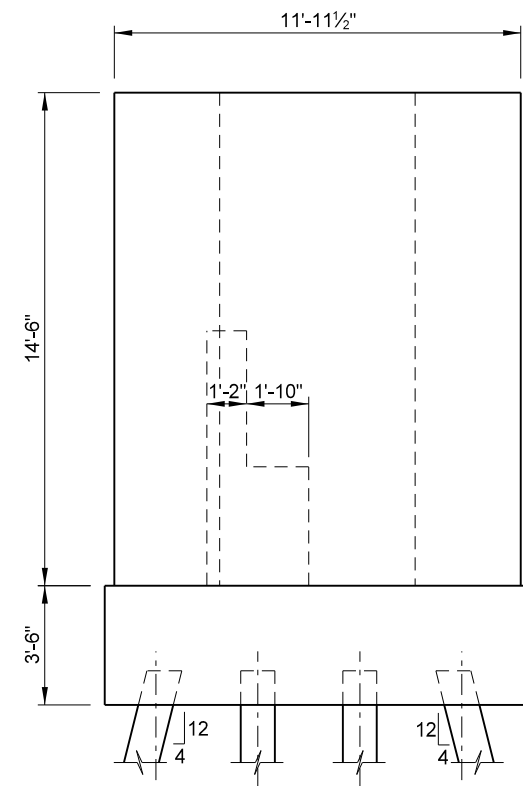
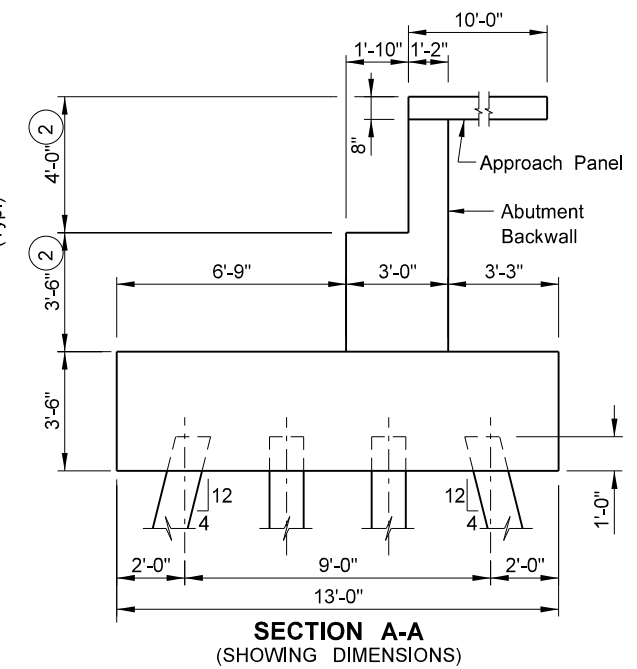
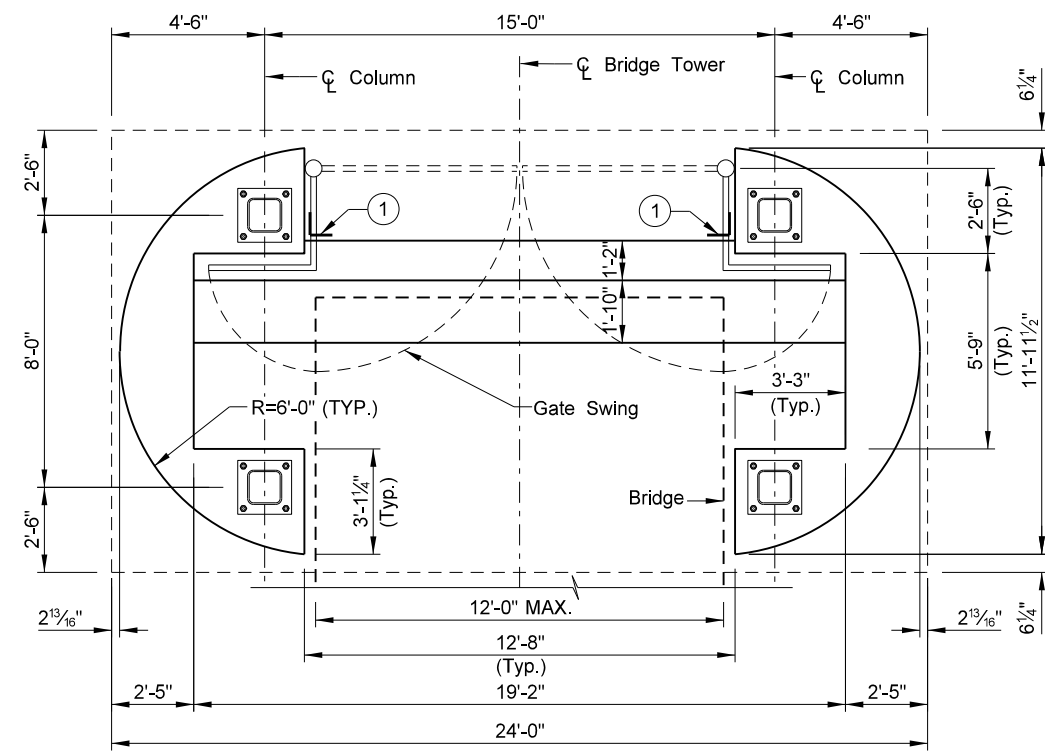
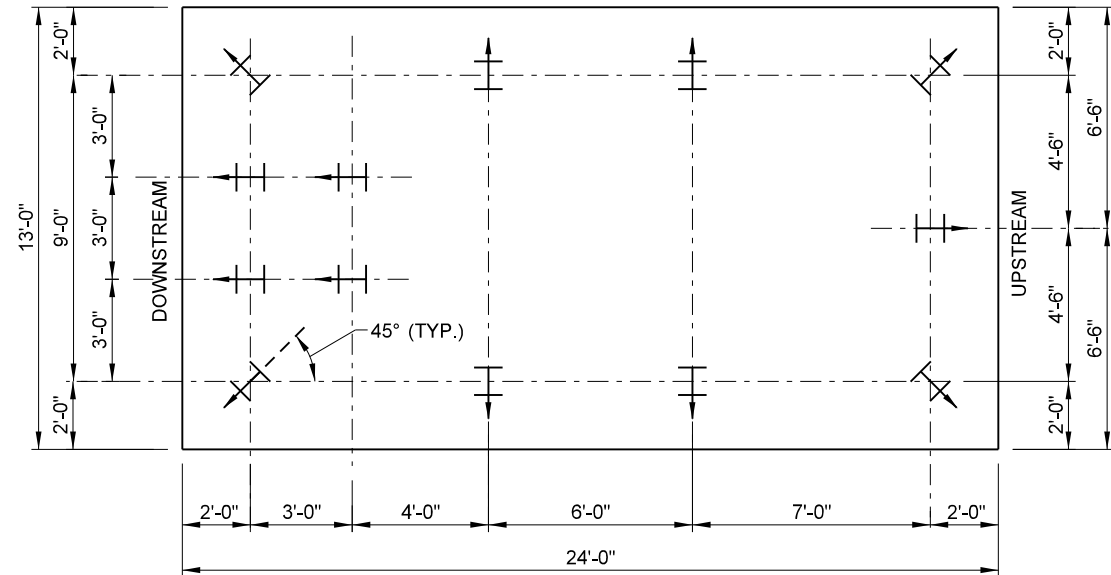
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**LEGEND:**

HP10 x 42 Pile With 4" Horizontal To 12" Vertical Batter In Direction Of Arrow

**NOTES:**

- Two Ply Fabric Waterproofing At Joint, Applied in Accordance With Section 740 Of The NDDOT Specifications All Material And Work Shall Be Included In The Pay Item "Class AE-3 Concrete"
- Dimensions May Vary Based On Bridge Manufacturing Requirements. Make Note Of Changes In Submittals.
- Architectural Finish And Stain Color To Be Submitted To The City For Approval. Make Note Of Changes In Submittals.

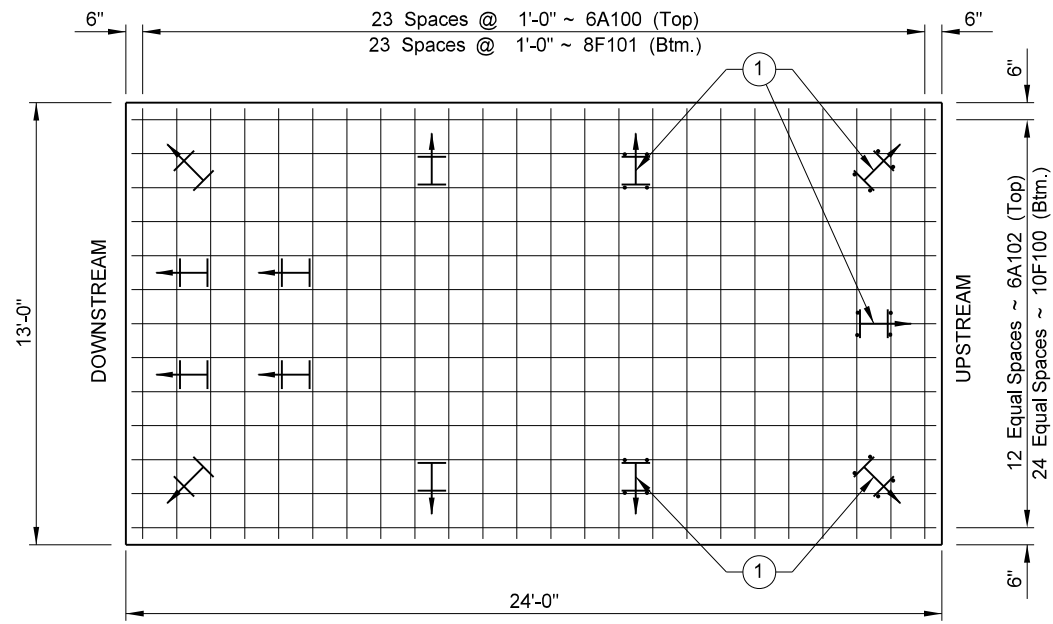


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Pedestrian/Bicycle Bridge Lift Towers

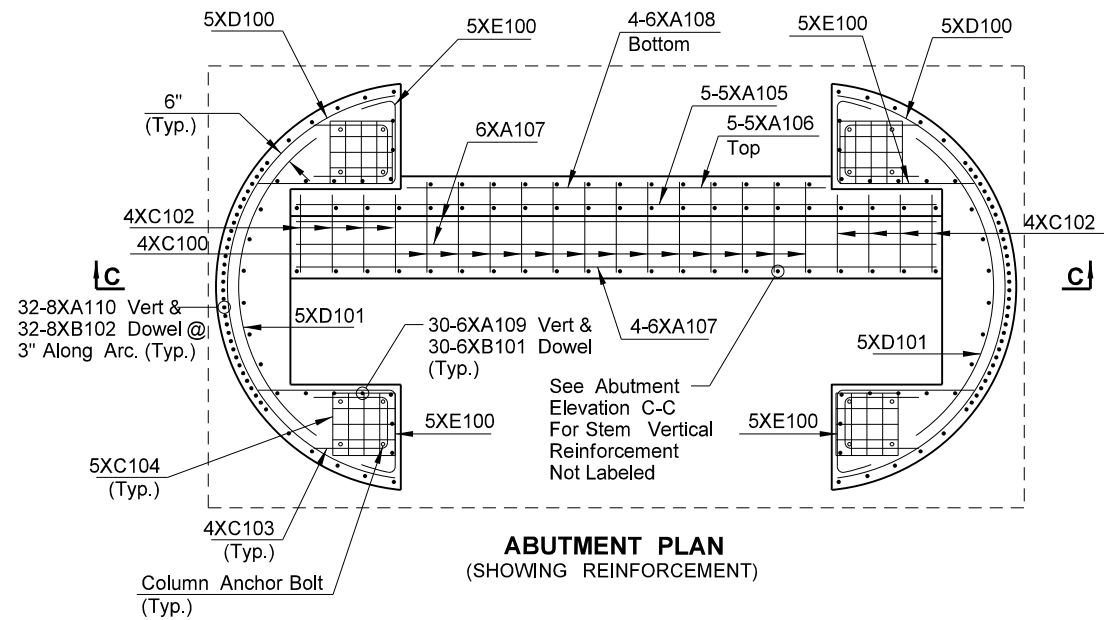
ABUTMENT NO. 1 & 2 SHOWING DIMENSIONS

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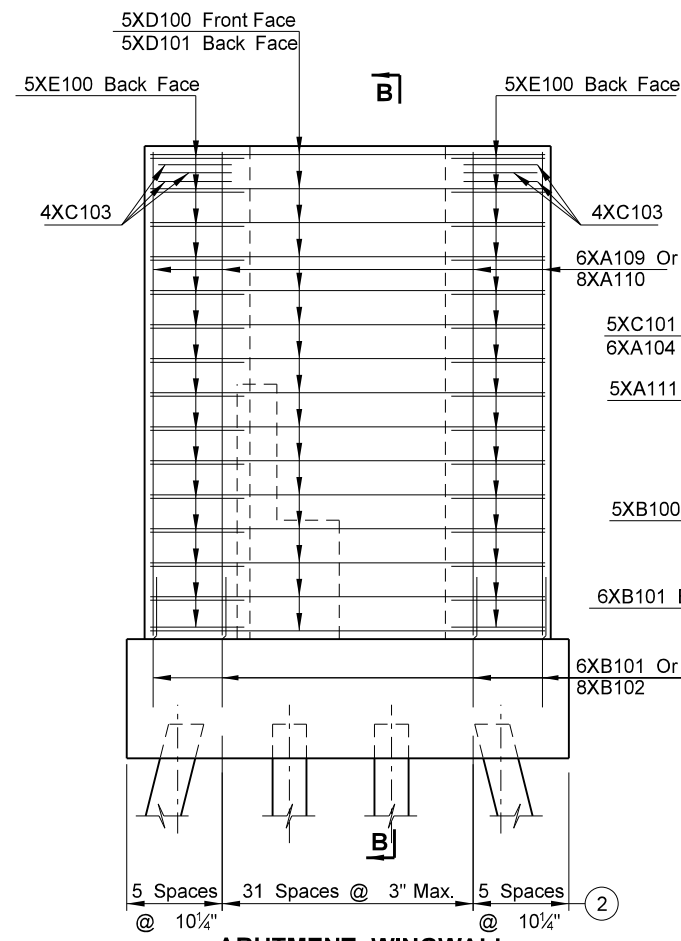


**FOOTING PLAN**  
(SHOWING REINFORCEMENT)

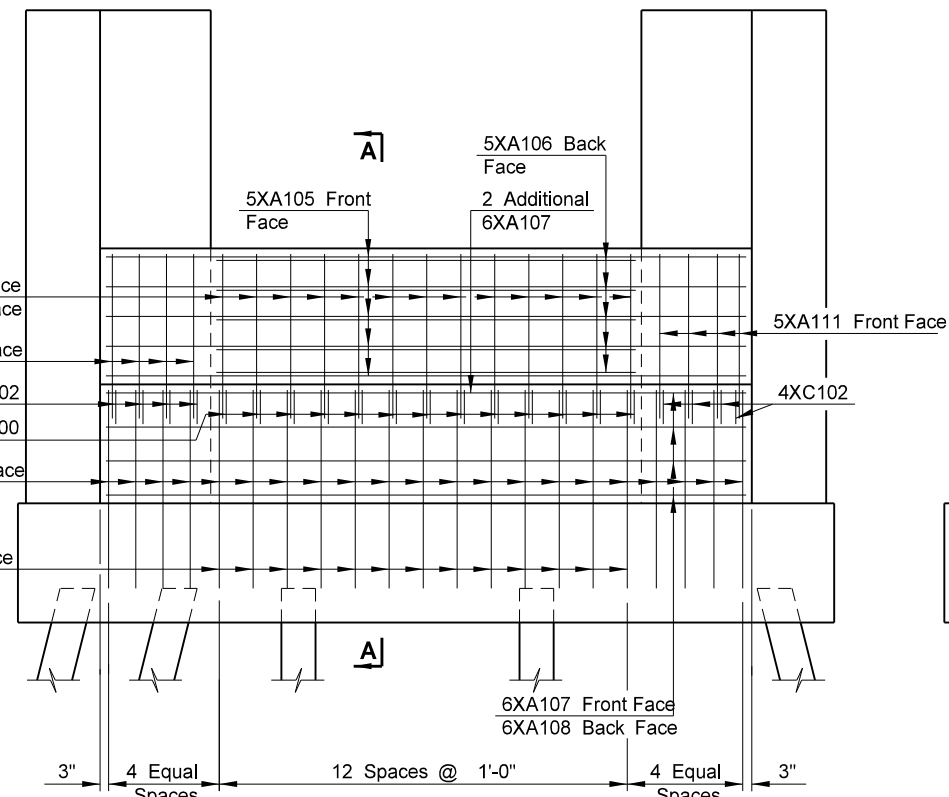
- NOTES:**
- ① Reinforced Piles. See Pile Reinforcement Detail On Sheet 8
  - ② Spacing Along Arc



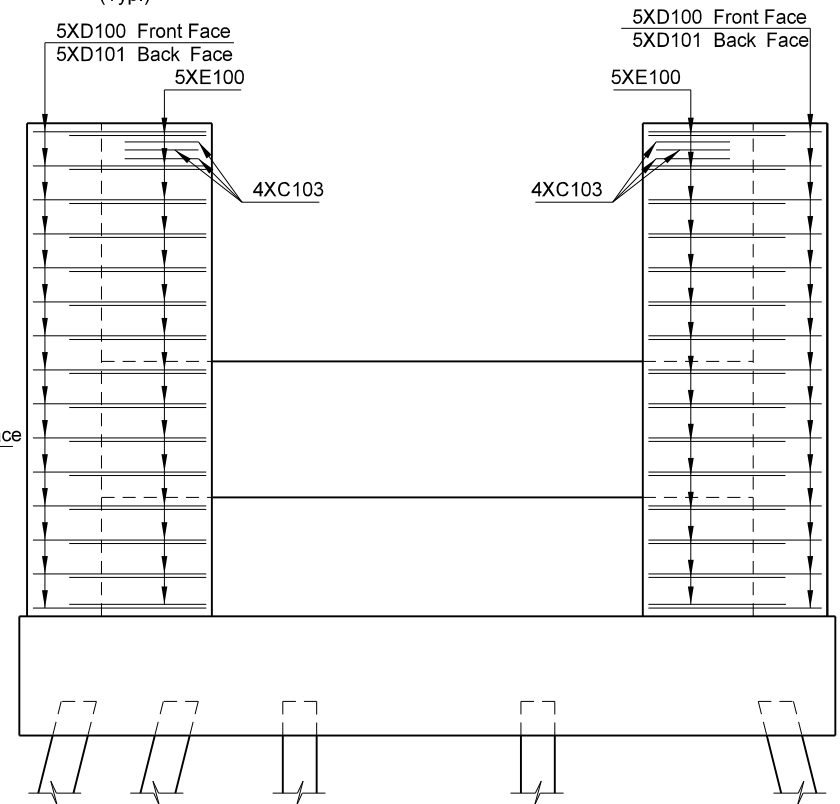
**ABUTMENT PLAN**  
(SHOWING REINFORCEMENT)



**ABUTMENT WINGWALL**  
(SHOWING REINFORCEMENT)



**ABUTMENT ELEVATION C-C**  
(SHOWING STEM REINFORCEMENT)



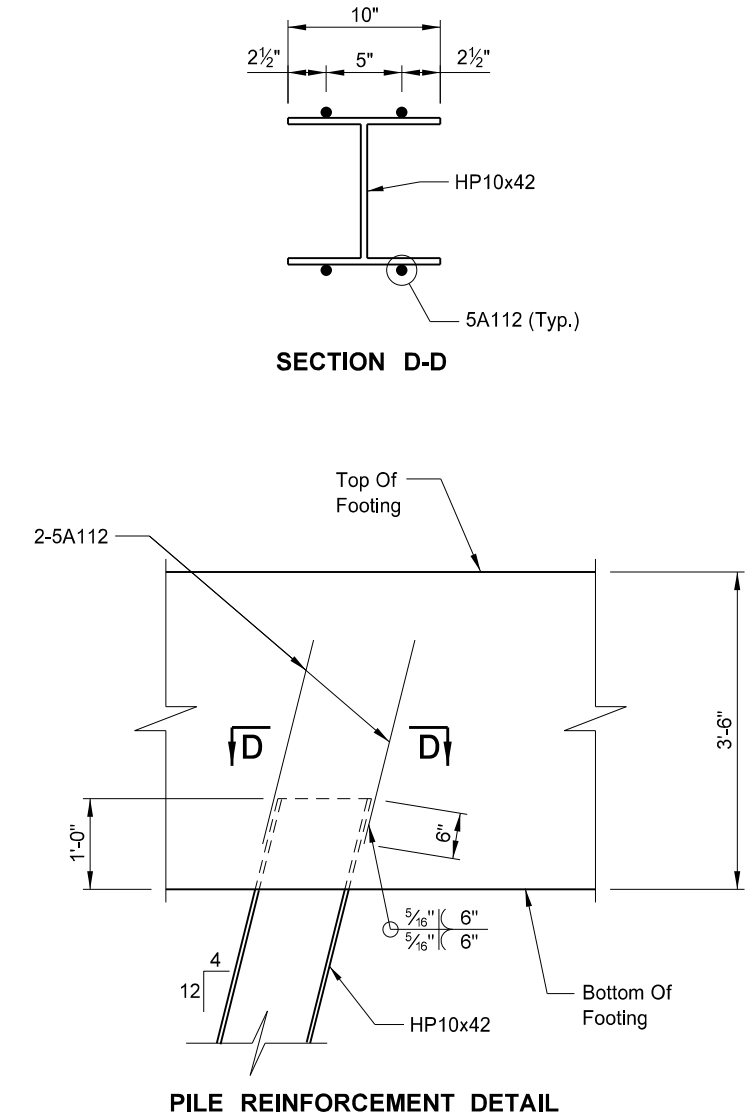
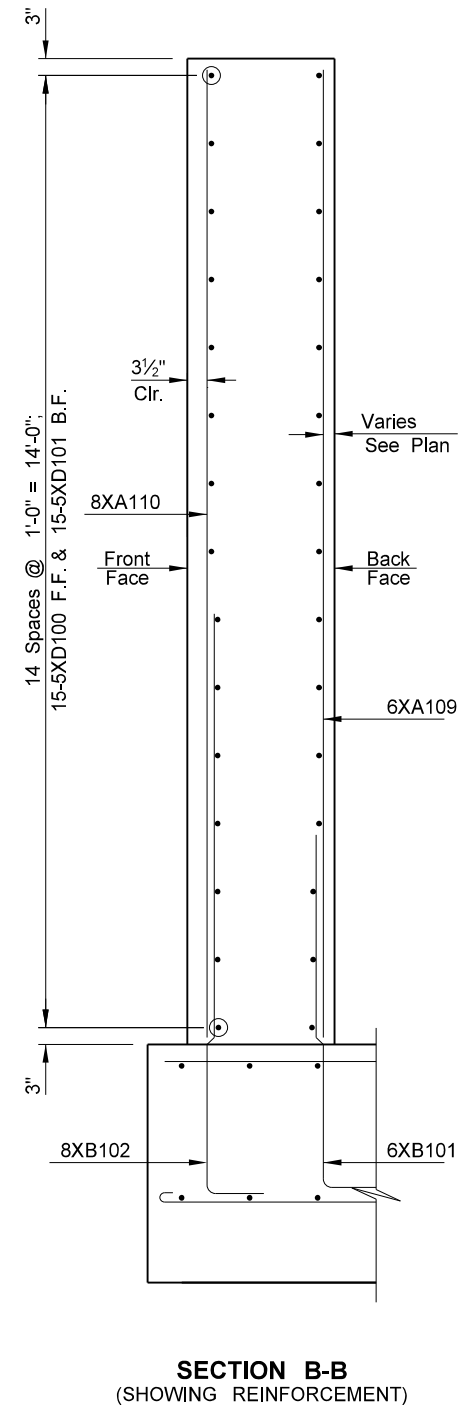
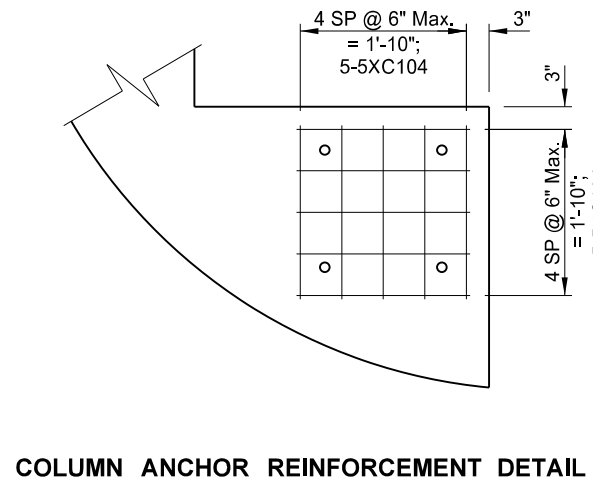
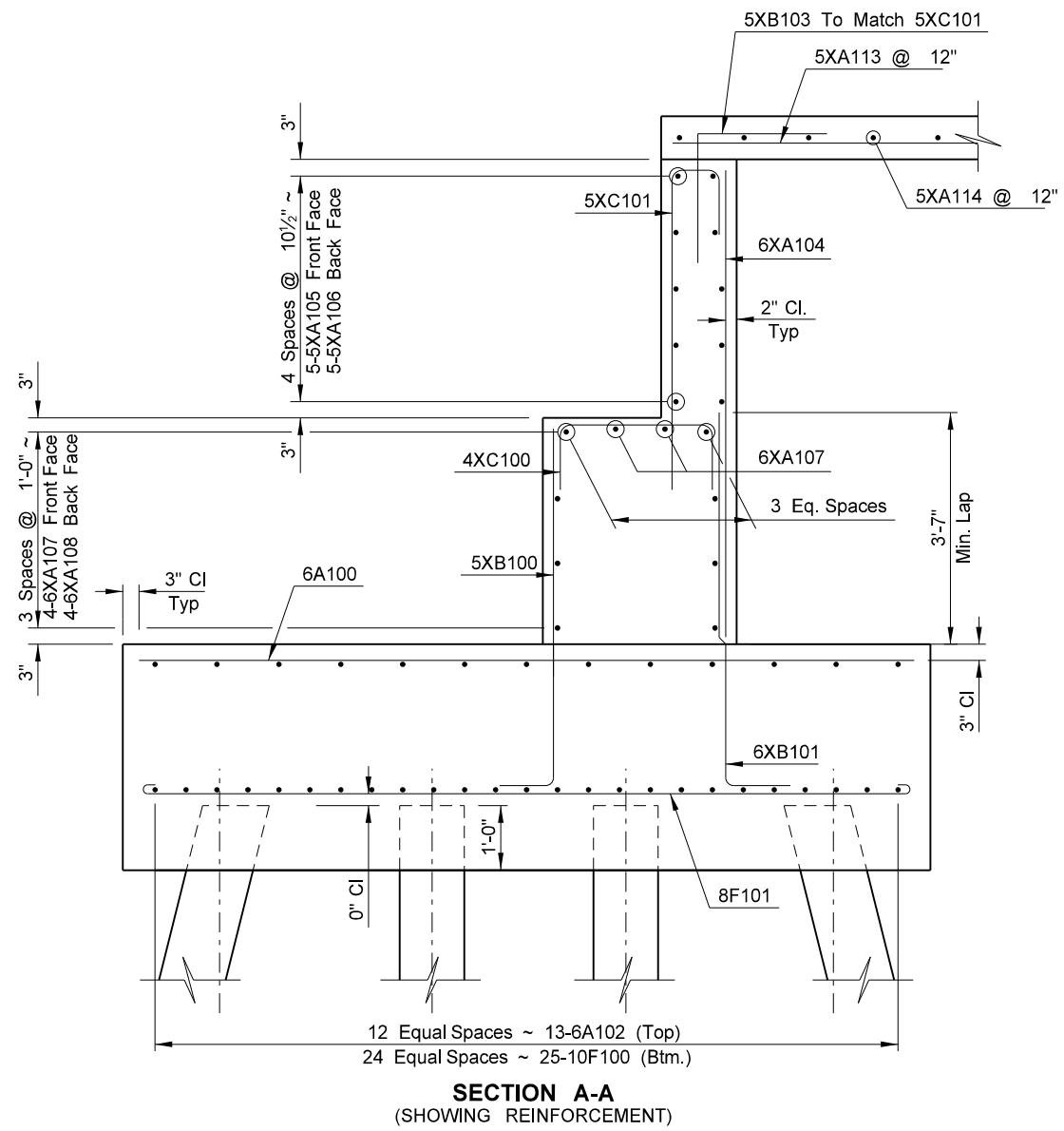
**ABUTMENT ELEVATION**  
(SHOWING WINGWALL REINFORCEMENT)

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Pedestrian/Bicycle Bridge Lift Towers

**ABUTMENT NO. 1 & 2**  
**SHOWING REINFORCEMENT**

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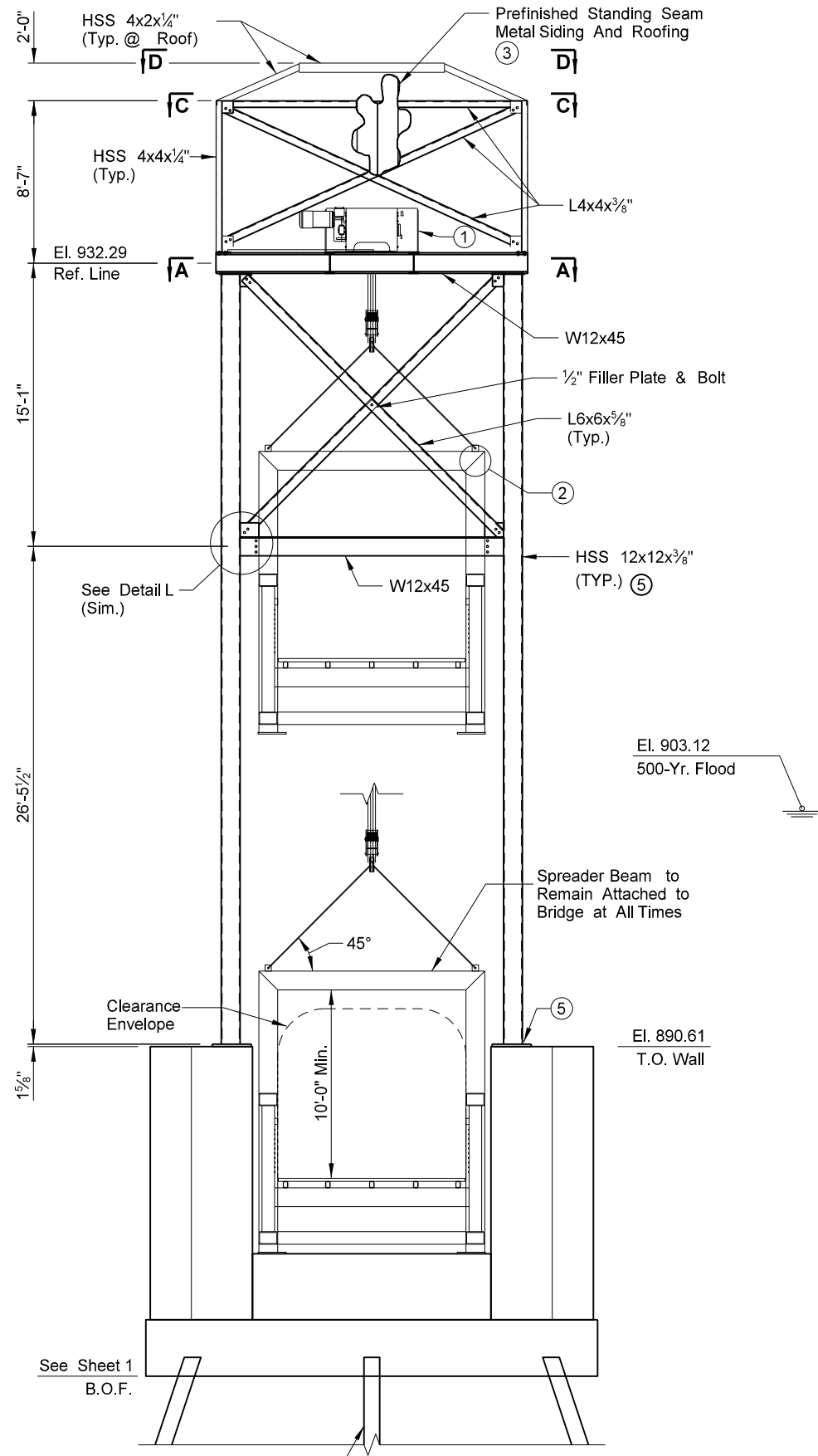
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Pedestrian/Bicycle Bridge Lift Towers

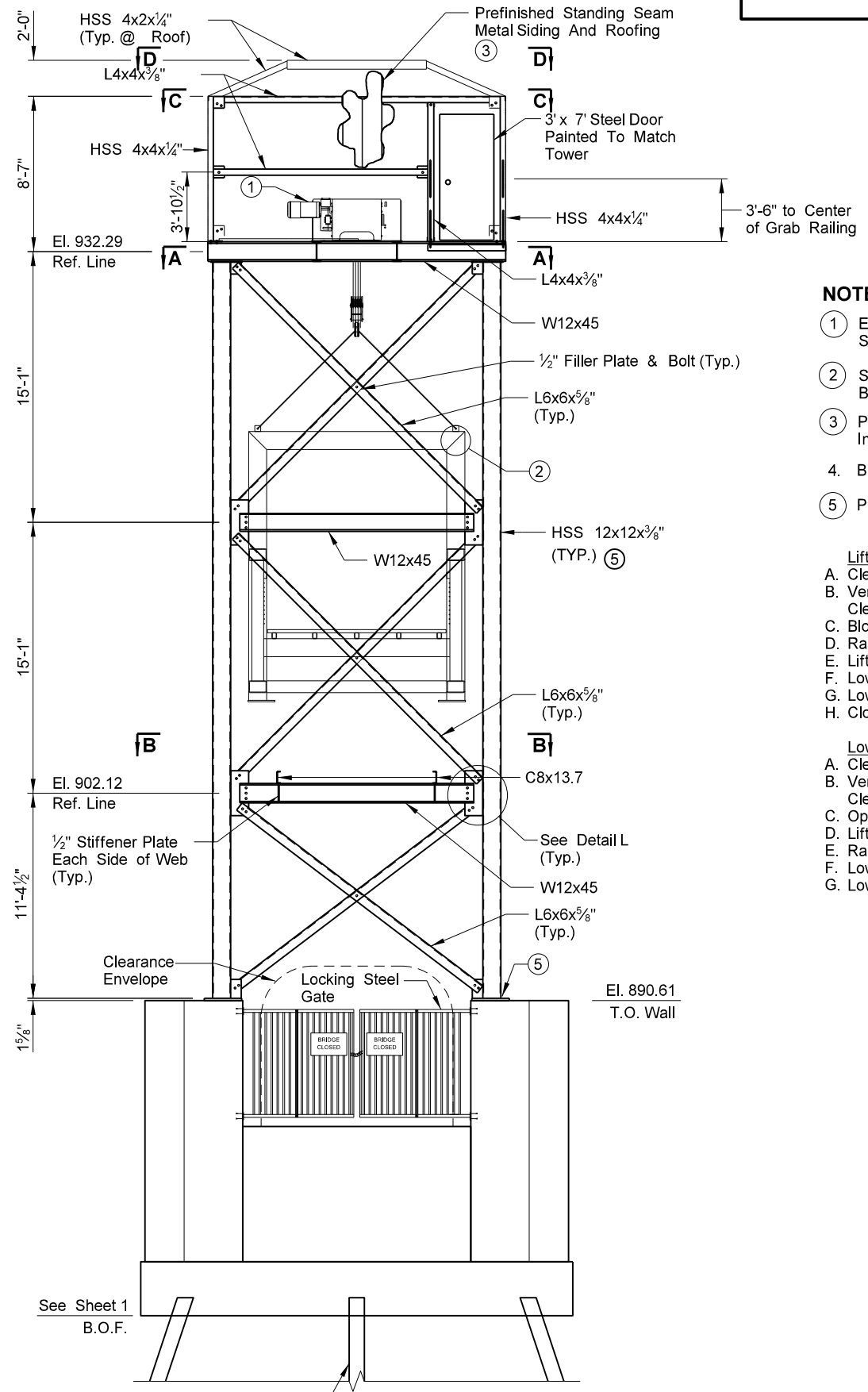
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**FRONT ELEVATION**



**BACK ELEVATION**

**NOTES:**

- ① Electric Cable Hoist With 40-Ton Operating Capacity See Electrical For Additional Requiements.
- ② Spreader Beam, Lift Cables And Attachment To Bridge Is By Contractor. Submit Details For Approval.
- ③ Prefinished Metal Siding Shall Be 1/2" Deep x 18" Wide Interlocking Sheets 22 Gauge, Grade 50 Material.
- 4. B.O.F. Denotes Bottom Of Footing
- ⑤ Provide Weep Holes At Base Of HSS Columns.

**Lifting Procedure:**

- A. Clear Bridge Of Snow And Ice.
- B. Verify Towers, Bridge, And Surrounding Area Are Clear Of Pedestrians And Other Obstructions.
- C. Block Entrance To Bridge At Each End.
- D. Raise Bridge Support Beam Using 2000lb Electric Cable Hoist.
- E. Lift Bridge Using Electric Hoist System.
- F. Lower Bridge Support Beam Once Bridge Has Cleared Beam.
- G. Lower Bridge Onto Support Beam.
- H. Close and Lock Steel Gates At Each End Of Bridge.

**Lowering Procedure:**

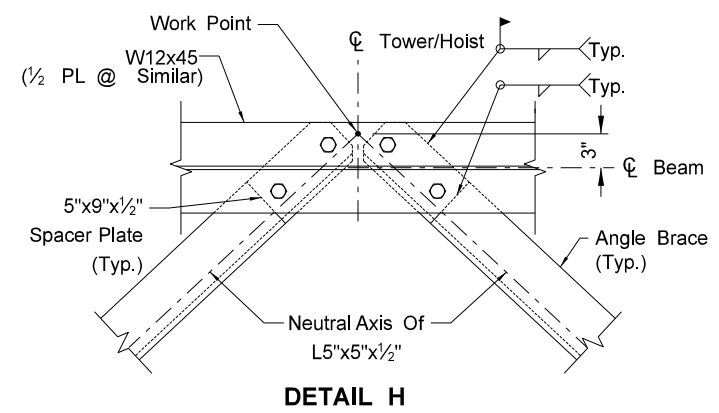
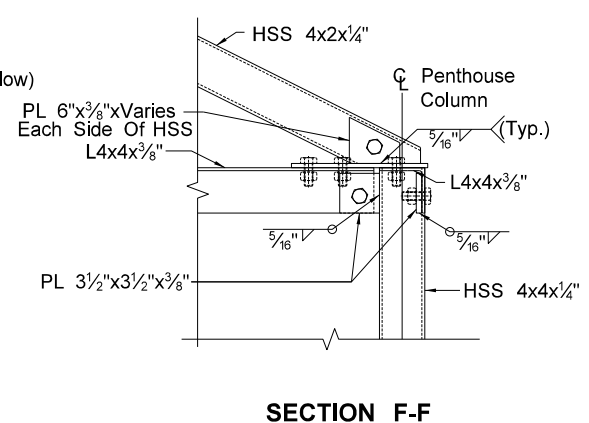
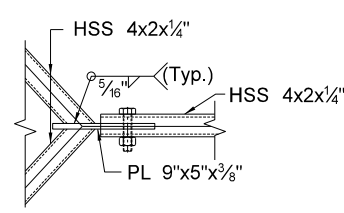
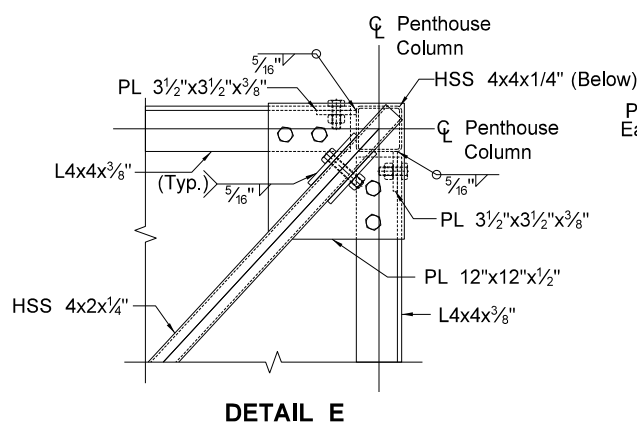
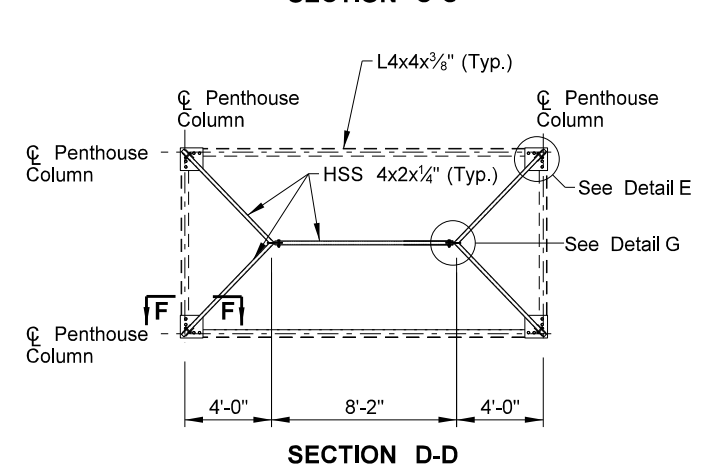
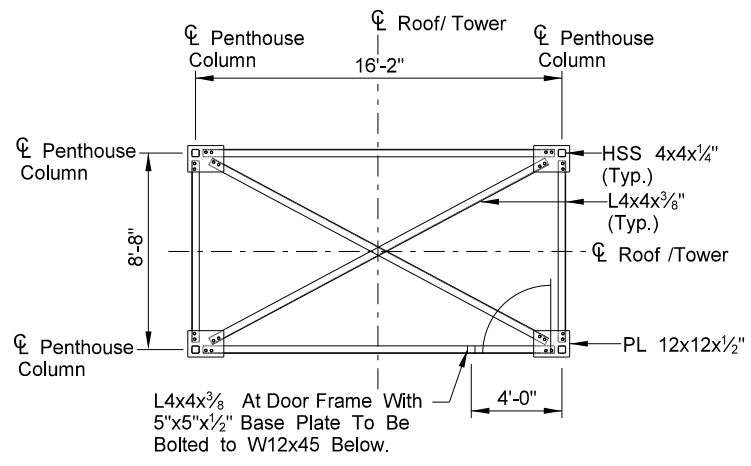
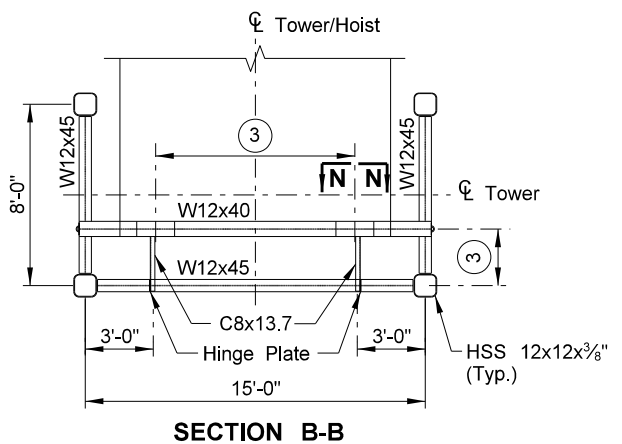
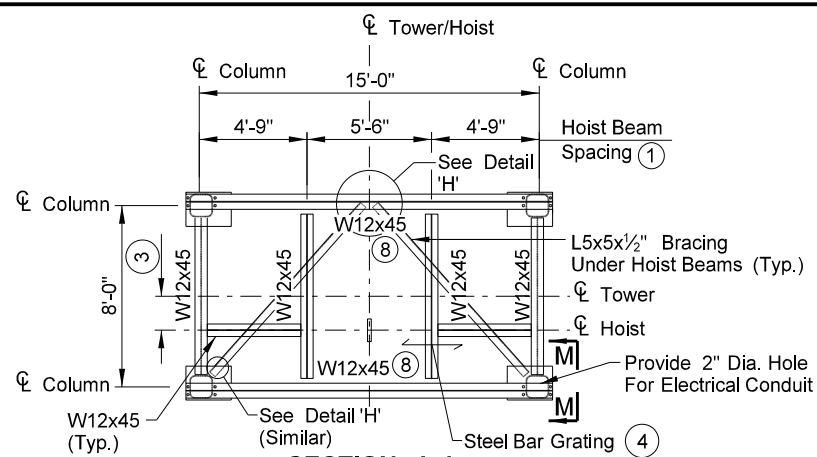
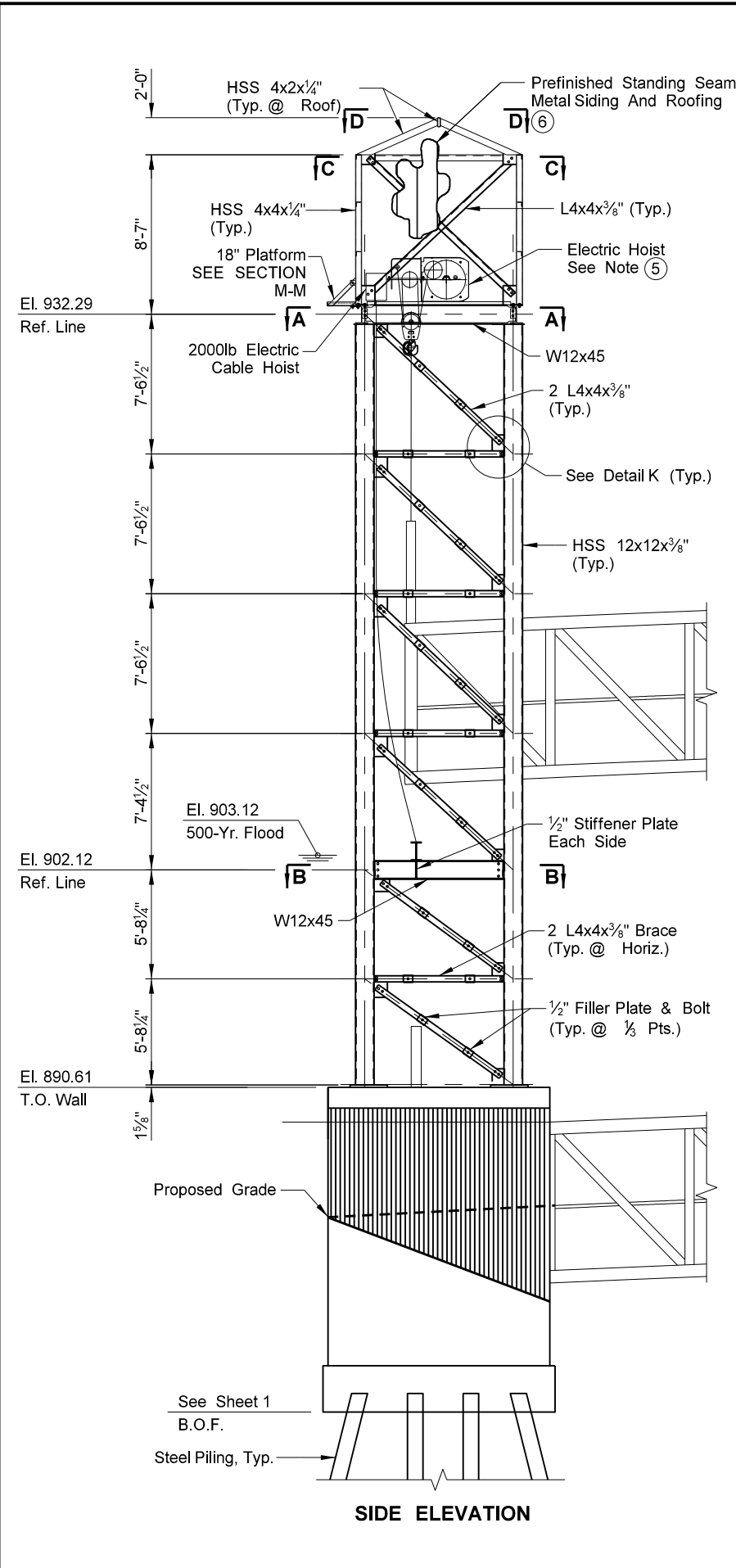
- A. Clear Bridge Of Snow And Ice.
- B. Verify Towers, Bridge, And Surrounding Area Are Clear Of Pedestrians And Other Obstructions.
- C. Open Gates And Block Entrances To Bridge At Each End.
- D. Lift Bridge To Provide Clearance For Support Beam To Rotate Up.
- E. Raise Support Beam Using 2000lb Electric Cable Hoist.
- F. Lower Bridge To The Abutment.
- G. Lower Bridge Support Beam to Rest on Tower Structure.

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Pedestrian/Bicycle Bridge Lift Towers

LIFT TOWER ELEVATIONS (Sheet 1 of 2)

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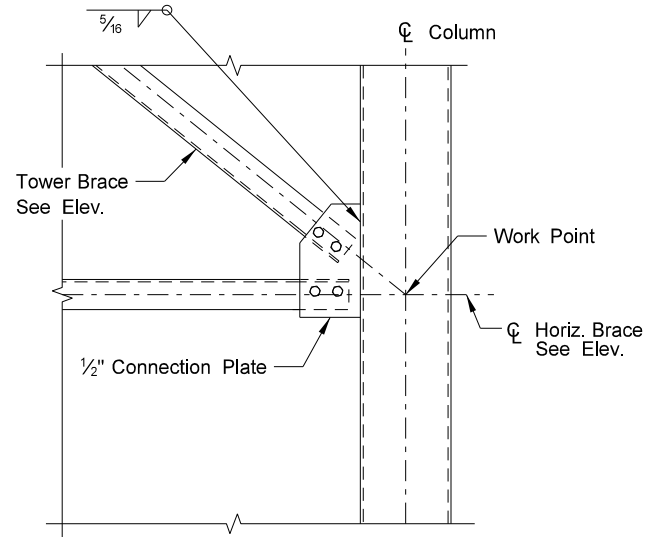
- NOTES:**
- Coordinate Hoist Support Beam Spacing With Hoist Supplier.
  - Spreader Beam, Lift Cables And Attachment To Bridge Is By Contractor. Submit Details For Approval.
  - Adjust  $\phi$  W12x40 Or  $\phi$  C8x13.7 Per  $\phi$  Bridge Bearing.
  - With  $1\frac{1}{2}$ "  $\times$   $\frac{3}{16}$ " Bearing Bars Spaced @  $\frac{1}{16}$ " O.C. Fastened To Floor Beams Per Manufacturer's Recommendation.
  - Electric Cable Hoist With 40-Ton Operating Capacity See Electrical For Additional Requirements.
  - Prefinished Metal Siding Shall Be  $\frac{1}{2}$ " Deep  $\times$  18" Wide Interlocking Sheets 22 Gauge, Grade 50 Material.
  - B.O.F. Denotes Bottom Of Footing
  - Beam  $\phi$  To Be Offset 2" From Column  $\phi$ . See Section M-M.

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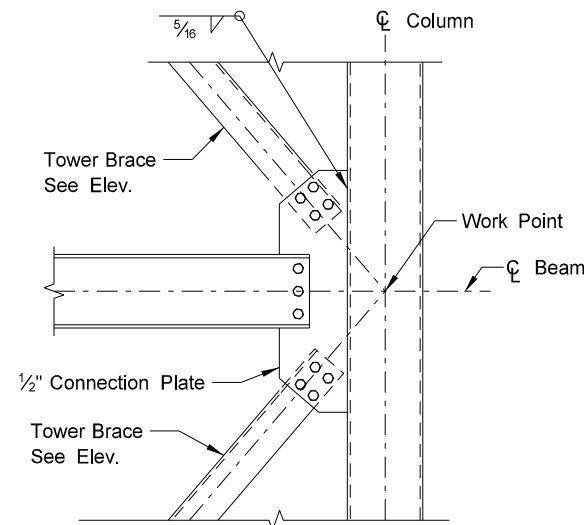
**Pedestrian/Bicycle Bridge Lift Towers**

**LIFT TOWER ELEVATIONS (Sheet 2 of 2)**

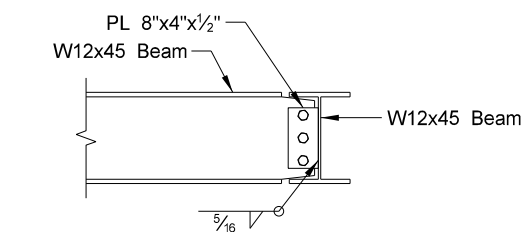
REVISION	11/06/17	STATE	PROJECT NUMBER	SECTION NO.	SHEET NO.
		ND	TAU-8-984(154)157	170	11



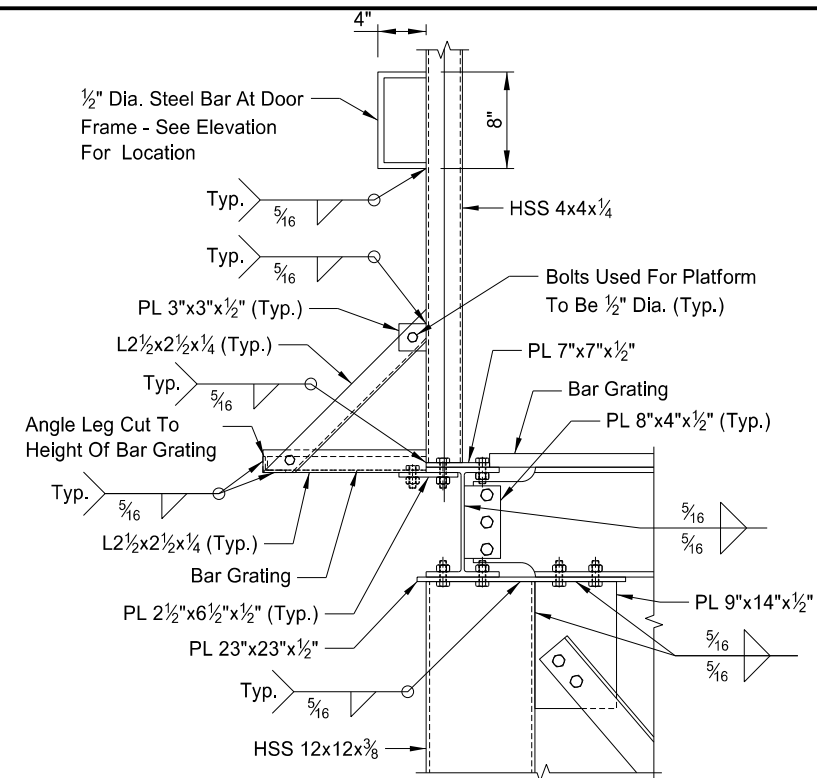
DETAIL K



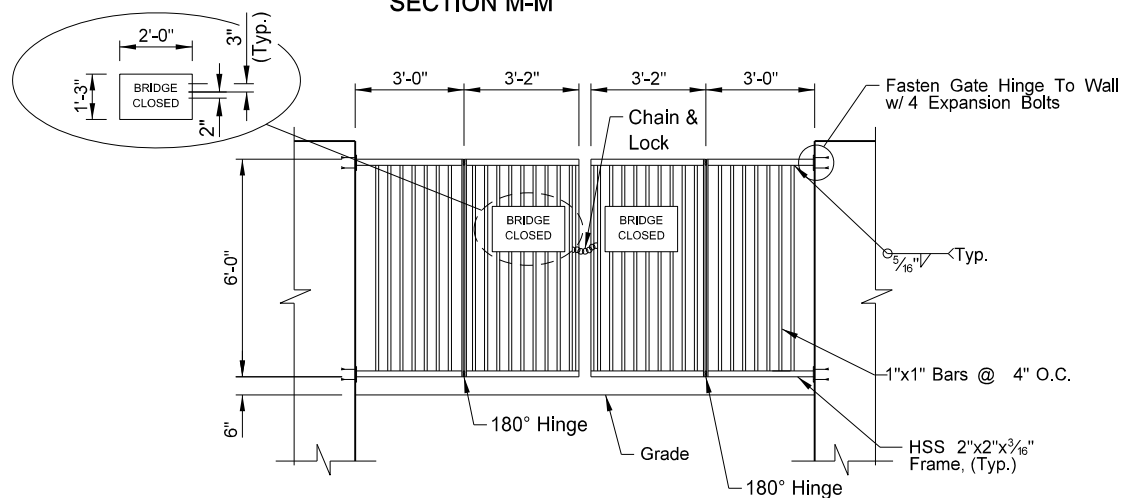
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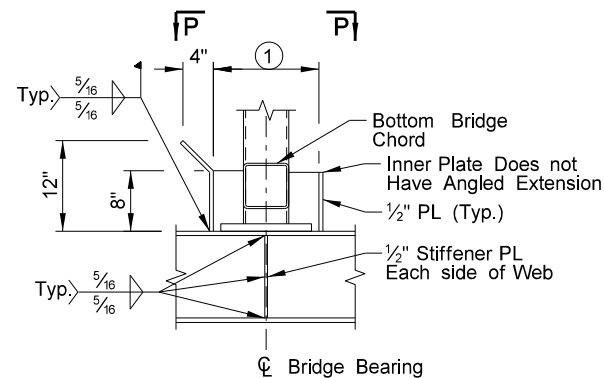
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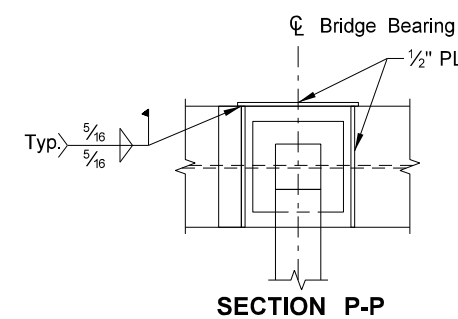
SECTION M-M



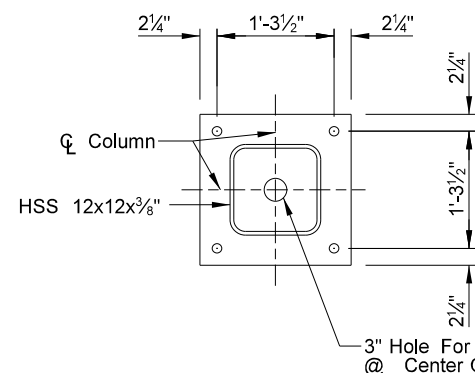
BI-FOLD GATE DETAIL



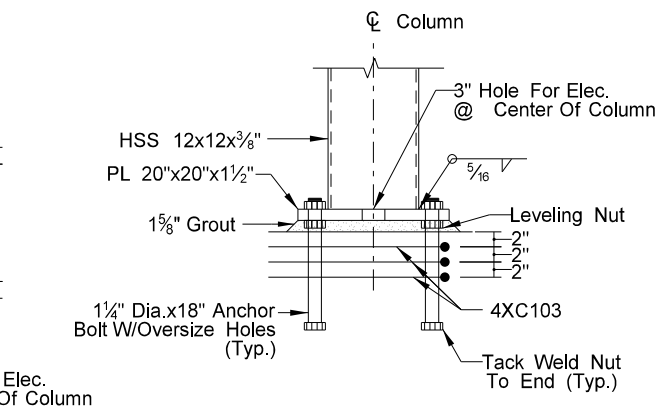
SECTION N-N



SECTION P-P

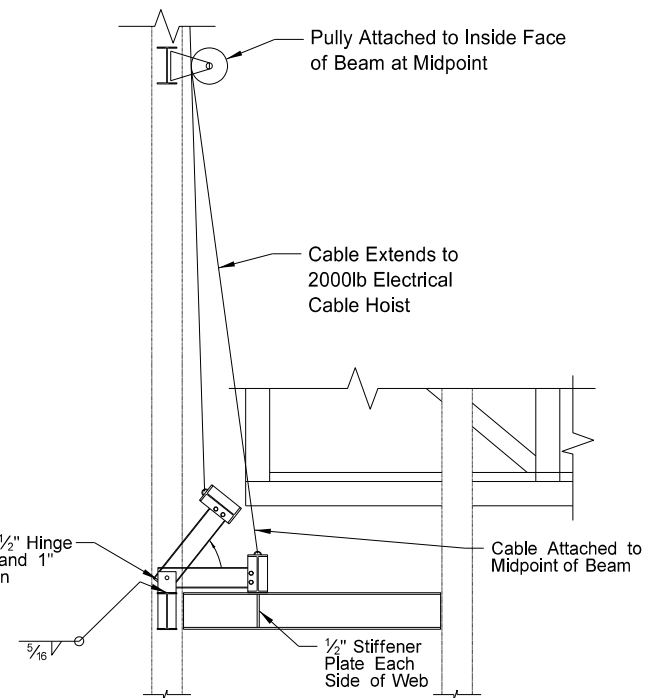


COLUMN BASE PLATE DETAIL



COLUMN BASE PLATE DETAIL

**Notes:**  
 ① Bridge Bearing Plate Width +2". Dimensions May Vary Based On Bridge Manufacturing Requirements. Make Note Of Changes In Submittals.



SWING ARM DETAIL

This document was originally issued and sealed by Matthew J Cramer Registration Number PE- 7898 on 11/06/17 and the original document is stored at the City of Fargo

Pedestrian/Bicycle Bridge Lift Towers

MISCELLANEOUS DETAILS

